



MULIPLE AWARD SCHEDULED  
AUTHORIZED FEDERAL SUPPLY SERVICE

**Knight Point Systems, LLC**  
15052 Conference Ctr Drive  
Chantilly, VA 20151-3858  
Phone: 703-657-7050 Fax: 571-266-3106  
[www.perspecta.com](http://www.perspecta.com)

Contract Number: GS-35F-0646S  
**Period Covered by Contract: September 25, 2006 through September 24, 2021**  
General Services Administration  
Mutliple Award Schedule Contract

Price List through Modification A812, effective February 5, 2020

Products and ordering information in this Authorized FSS Information Technology Schedule Pricelist are also available on the GSA Advantage! System.

Agencies can browse GSA Advantage! by accessing the Federal Supply Service's Home Page via the Internet at <http://www.fss.gsa.gov/>

<b>INFORMATION FOR ORDERING ACTIVITIES          APPLICABLE TO ALL SPECIAL ITEM NUMBERS</b>
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**1a. AUTHORIZED SPECIAL ITEM NUMBERS (SINs):**

<u>SIN</u>	<u>DESCRIPTION</u>
518210C	Cloud and Cloud-Related IT Professional Services
54151HACS	Highly Adaptive Cybersecurity Services (HACS)
54151S	Information Technology Professional Services
54151ECOM	Electronic Commerce and Subscription Services
OLM	Order-Level Materials

**1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH SIN:** See Price List

**1c. SERVICES OFFERED:** See Price List

**2. MAXIMUM ORDER PER SIN:**

<u>SIN</u>	<u>MAXIMUM ORDER</u>
518210C, 54151HACS, 54151S, and 54151ECOM	\$500,000 per SIN/Order

This maximum order threshold is a dollar amount at which it is suggested that the ordering agency request higher discounts from the contractor before issuing the order. The contractor may: (1) Offer a new lower price, (2) Offer the lowest price available under the contract, or (3) Decline the order within five (5) days. In accordance with the Maximum Order provisions contained in the Schedule, a delivery order may be placed against the Schedule contract even though it exceeds the maximum order threshold.

**3. MINIMUM ORDER:** \$100

**4. GEOGRAPHIC COVERAGE (DELIVERY AREA):** The geographic scope of this contract is the 48 contiguous states, Alaska, Hawaii, Puerto Rico, Washington, DC, and U.S. Territories

**5. POINT OF PRODUCTION:** United States

**6. BASIC DISCOUNT:** Prices listed are net, discounts have been deducted and the Industrial Funding Fee has been added

**7. QUANTITY DISCOUNT:** None

8. **PROMPT PAYMENT TERMS:** Net 30 - Information for the ordering offices: prompt payment terms cannot be negotiated out of contractual agreement in exchange for other concessions
- 9a. **GOVERNMENT PURCHASE CARDS ARE ACCEPTED UP TO THE MICRO-PURCHASE THRESHOLD.**
- 9b. **GOVERNMENT PURCHASE CARDS ARE ACCEPTED ABOVE THE MICRO-PURCHASE THRESHOLD.**
10. **FOREIGN ITEMS:** None
- 11a. **TIME OF DELIVERY:** As negotiated with the Ordering Agency
- 11b. **EXPEDITED DELIVERY:** Contact Contractor
- 11c. **OVERNIGHT AND 2-DAY DELIVERY:** Contact Contractor
- 11d. **URGENT REQUIREMENTS:** Contact Contractor
12. **F.O.B. POINT:** FOB Destination
- 13a. **ORDERING ADDRESS:** Knight Point Systems, LLC  
15052 Conference Ctr Drive  
Chantilly, VA 20151-3858
- 13b. **ORDERING PROCEDURES:** For supplies and service the ordering procedures, information on Blanket Purchase Agreements (BPAs) are found in Federal Acquisition Regulation (FAR) 8.405-3
14. **PAYMENT ADDRESS:** Same as Ordering Address
15. **WARRANTY PROVISION:** Standard Commercial Warranty
16. **EXPORT PACKING CHARGES:** Not Applicable
17. **TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE:**  
None

- 18. TERMS AND CONDITIONS OF RENTAL:** Not Applicable
- 19. TERMS AND CONDITIONS OF INSTALLATION:** Not Applicable
- 20a. TERMS AND CONDITIONS OF REPAIR PARTS:** Not Applicable
- 20b. TERMS AND CONDITIONS FOR ANY OTHER SERVICES:** See Terms and Conditions Section
- 21. LIST OF SERVICE AND DISTRIBUTION POINTS:** None
- 22. LIST OF PARTICIPATING DEALERS:** None
- 23. PREVENTIVE MAINTENANCE:** See Pricelist for available options
- 24a. SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES ( E.G., RECYCLED CONTENT, ENERGY EFFICIENCY, AND/OR REDUCED POLLUTANTS):**  
Not Applicable
- 24b. SECTION 508 COMPLIANCE INFORMATION:** Not Applicable
- 25. DATA UNIVERSAL NUMBER SYSTEM (DUNS) NUMBER:** 622594492
- 26. CONTRACTOR HAS REGISTERED IN THE SYSTEM FOR AWARD MANAGEMENT (SAM) DATABASE.**  
**CAGE CODE: 4CRC1**

**KNIGHT POINT'S AUTHORIZED GSA SCHEDULE  
LABOR CATEGORIES**

<b>Education and Equivalencies Table</b>			
<b>Education</b>	<b>Equivalent Experience w/o Degree</b>	<b>Experience</b>	<b>Equivalent Education</b>
Associate's Degree	3 years of experience	2 Years	Associate's Degree
Bachelor's Degree	5 years of experience	4 Years	Bachelor's Degree
Master's Degree	7 years of experience	6 Years	Master's Degree
PhD	9 years of experience	8 Years	PhD

<b>Labor Category</b>	<b>Description</b>	<b>Education Requirement</b>	<b>Experience Requirement</b>
Applications Consultant – Enterprise Systems	The Application Consultant provides consultation and support in enterprise systems software configuration and implementation and has functional expertise in relevant domain area such as systems management, systems testing, system analysis and design. The Applications Consultant has knowledge and understanding of applications such as McAfee, Symantec, FireEye and other like-applications.	Bachelor's Degree or equivalent	6 years of relevant experience
Application Consultant – Senior	The Application Consultant Senior provides consultation and support in enterprise systems software and information technology services and has functional expertise in relevant domain area such as systems management, systems testing, system analysis and design. The Applications Consultant - Senior has extensive knowledge in applications such as McAfee, Symantec, FireEye and other like-applications.	Bachelor's Degree or equivalent	8 years of relevant experience
Business Process Consultant (BPC)	The BPC has long-term experience applying process improvement and reengineering methodologies and principles necessary to conduct system modernization projects. The BPC formulates and defines systems scope and objectives based on both user needs and a good understanding of applicable business systems and industry requirements. The BPC devises or modifies procedures to solve complex problems considering computer equipment capacity and limitations, operating time, and form of desired results. Duties may include activity and data modeling, development of system methods, and creating and assessing system performance measurements.	Bachelor's Degree or equivalent	10 years of relevant experience
Configuration Management Specialist 1 (CMS1)	The CMS1 develops and maintains configuration plans, analyses proposed product design changes to determine the effect on overall system, and implements directives and schedules necessary to ensure effective system management.	Associate's Degree or equivalent	1 year of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
Configuration Management Specialist 2 (CMS2)	The CMS2 develops and maintains configuration plans, analyses proposed product design changes to determine the effect on overall system, and implements directives and schedules necessary to ensure effective system management. Coordinates and drives timely delivery of CM requirements and other inputs to the organizations implementing new design and CM tools for the engineering team. The CM Specialist is responsible for developing enterprise common service processes and procedures for identifying and maintaining all configuration items related to various systems life cycle projects.	Associate's Degree or equivalent	2 years of relevant experience
Data Architect	The Data Architect defines, designs, and builds dimensional databases. Duties include developing data, evaluating hardware and software platforms, and integrating systems. Additional duties include evaluating reusability of current data for additional analyses and conducting data cleaning to rid the system of old, unused, or duplicate data. Reviews object and data models and the metadata repository to structure the data for better management and quicker access.	Bachelor's Degree or equivalent	4 years of relevant experience
Data Architect – Principal	The Data Architect Principal has specialized experience includes using current DBMS technologies, performing application design utilizing various DBMS, and working with DBMS internals. Other responsibilities include assisting the Program Manager as necessary, providing technical assistance to project team members, participating in management-level presentations of project status, assisting in preparation of monthly status reports, performing technical architectural design duties as a member of the program team.	Bachelor's Degree or equivalent	8 years of relevant experience
Data Migration Technician 2 (DMT2)	The DMT2 has experience with multi-terabyte data warehouse/mart implementations spanning multiple database platforms and an understanding of data management techniques. The DMT2 possesses a demonstrated knowledge/understanding of extraction, transformation tools, loading tools, and database systems.	Bachelor's Degree or equivalent	8 years of relevant experience
Data Migration Technician 3 (DMT3)	The DMT3 has experience with multi-terabyte data warehouse/mart implementations spanning multiple database platforms and an understanding of data management techniques. The DMT3 possesses a demonstrated knowledge/understanding of extraction, transformation tools, loading tools, and database systems.	Bachelor's Degree or equivalent	10 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
Database Administrator 1 (DBA1)	The DBA1 assists in administering database organizations, standards, controls, procedures, and documentation and provides entry level technical consulting in the definition, design, and creation of a data base environment. The DBA1 develops applications to help formulate data-based solutions to business problems, data architectures, data base management system facilities and capabilities, and the operation and tuning of data bases and maintains databases with respect to access methods, access time, batch processes, device allocation, validation checks, organization, protection and security, documentation, and statistical methods including maintenance of database dictionaries, and integration of systems through database design. Database language experience is in current database technologies.	Associate's Degree or equivalent	1 year of relevant experience
Database Administrator 2 (DBA2)	The DBA2 administers database organizations, standards, controls, procedures, and documentation and provides technical consulting in the definition, design, and creation of a database environment. The DBA2 assists applications development staff and users with database solutions to business problems, data architectures, database management system facilities and capabilities, and the operation and tuning of databases. The DBA2 implements and maintains databases with respect to access methods, access time, batch processes, backup processes and scheduling, device allocation, validation checks, organization, protection and security, documentation, and statistical methods including maintenance of database dictionaries and integration of systems through database design. The DBA2 maintains automated tools for database design and implementation, prepares and documents shell scripts and batch processes and ensures that documentation is complete and up-to-date. Database language experience is in current database technologies.	Associate's Degree or equivalent	2 years of relevant experience
Database Administrator 3 (DBA3)	The DBA3 defines and administers database organizations, standards, controls, procedures, documentation and provides experienced technical consulting in the definition, design, and creation of a database environment. The DBA3 advises applications development staff and users on database solutions to business problems, data architectures, database management system facilities and capabilities, and the operation and tuning of databases. The DBA3 ensures economic and efficient availability of data with adequate safeguards and designs, implements, and maintains databases with respect to access methods,	Bachelor's Degree or equivalent	2 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	access time, batch processes, device allocation, validation checks, organization, protection and security, documentation, and statistical methods including maintenance of database dictionaries, and integration of systems through database design. Develops and maintains expertise in use of automated tools for database design and implementation. Database language experience is in current database technologies.		
Database Administrator 4 (DBA4)	The DBA4 understands and practices a wider range of data administration skills, often in a Business Process Reengineering context. The DBA4 participates in strategic data planning, including development and implementation of database administration (DA) policies, standards, procedures, and is able to lead and train junior DBA specialists. The DBA4 understands data from the perspective of data processing and in the context of different life-cycle phases. The DBA4 activities may include data quality engineering, metadata consolidation and integration, metamodel development and maintenance, repository management, data warehouse design and data mining, data security administration, and formulation of enterprise-specific data metrics. Database language experience is in current database technologies.	Bachelor's Degree or equivalent	4 years of relevant experience
Database Architect Principal (DBAP)	The DBAP's specialized experience includes using current DBMS technologies, performing application design utilizing various DBMS, and working with DBMS internals. The DBAP's other responsibilities include assisting the project manager and customer with database architecture designs, scheduling and recommendations for technology refreshes as necessary; providing technical assistance to project team members; participating in management-level presentations of project status; assisting in preparation of monthly status reports pertaining to database projects; and performing technical duties as a member of the project team.	Bachelor's Degree or equivalent	8 years of relevant experience
Disaster Recovery Specialist 1	The Disaster Recovery Specialist 1 has experience with business technology programs/platforms, has strong verbal and written communication skills, provides support in the development of an agency's information technology emergency management and recovery plans, performs functions pertaining to the agencies information technology network risk assessments, reviews and develops network and system recovery strategies, drafts procedures for identifying system failures and involving contingency plans, creates response procedures, and communicates with various	Bachelor's degree or equivalent.	2 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	response teams during testing and actual execution of system and/or network recovery procedures. This individual also supports the design, development, installation, implementation and administration of backup solutions.		
Documentation Specialist 1 (DS1)	The DS1 prepares and/or maintains documentation pertaining to programming, systems operation and user documentation, translates business specifications into user documentation, plans, writes, and maintains systems and user support documentation efforts, including online help screen. The DS1 has an understanding of the use of commonly-used concepts, practices, and procedures for documentation preparation and management and relies on instructions and pre-established guidelines to perform the functions of the job. The DS1 works under immediate supervision and primary job functions do not typically require exercising independent judgment.	Associate's degree or equivalent	1 year of relevant experience
Engineer 2	Responsible for design, development, implementation, and analysis of technical products and systems. Performs engineering design evaluations. May develop a range of products. Recommends alterations to development and design to improve quality of products and/or procedures. Requires a Bachelor's Degree in engineering and 1-4 years of experience in the field or in a related area. Familiar with standard concepts, practices, and procedures within a particular field. Relies on limited experience and judgment to plan and accomplish goals. Performs a variety of tasks. Works under general supervision. Typically reports to a supervisor or manager.	Bachelor's Degree or equivalent	1 year of relevant experience
Enterprise Architect	The Enterprise Architect establishes system information requirements using analysis from the information engineer(s) in the development of enterprise-wide or large scale information systems, designs architecture to include the software, hardware, and communications to support the total requirements, as well as provide for present and future cross-functional requirements and interfaces. As appropriate, the Enterprise Architect ensures these systems are compatible and in compliance with the standards for open systems architectures; the Open Systems Interconnection (OSI) and International Standards Organization (ISO) reference models; and profiles of standards — such as Institute of Electrical and Electronic Engineers, Open Systems Environment, reference model — as they apply to the implementation and specification of Information Management solution	Bachelor's Degree or equivalent	8 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	of the application platform across the application program interface and external environment hardware and/or software.		
Enterprise Architect – Senior	The Enterprise Architect - Senior establishes system information requirements using analysis from the information engineer(s) in the development of enterprise-wide or large scale information systems, designs architecture to include the software, hardware, and communications to support the total requirements, as well as provide for present and future cross-functional requirements and interfaces. As appropriate, the Enterprise Architect - Senior ensures these systems are compatible and in compliance with the standards for open systems architectures; the Open Systems Interconnection (OSI) and International Standards Organization (ISO) reference models; and profiles of standards — such as Institute of Electrical and Electronic Engineers, Open Systems Environment, reference model — as they apply to the implementation and specification of Information Management solution of the application platform across the application program interface and external environment hardware and/or software.	Bachelor's Degree or equivalent	11 years of relevant experience
Financial Manager	The Financial Manager is responsible for developing budgets, tracking costs, and securing funding for the ESO. The Financial Manager gathers, stores, and tracks all financial activities for projects and on-going operations including: Project Cost Benefits Analyses, organization and project budgets, agency specific costs for services, review of actual charges and analysis of spending patterns from providers, and preparation of periodic and special financial reports.	Bachelor's Degree or equivalent	5 years of relevant experience
Help Desk Technician 1 (HDT1)	The HDT1 has basic proficiency gained from specialized training in help desk processes and techniques. The HDT1 responds to telephone and e-mail problem reports by working to identify and resolve hardware, software and application problems. As necessary, the HDT1 coordinates problem identification with programmers, analysts, software engineers, and/or trainers to develop and offer responsive solutions to allow continued functionality.	High School Diploma  Completes HDI within 1 year of hire	2 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
Help Desk Technician 2 (HDT2)	The HDT2 has demonstrated proficiency gained from specialized training and hands-on help desk environments. The HDT2 responds to telephone and e-mail problem reports by working to identify and duplicate hardware, software and application problems reported by users. The HDT2 performs root cause analysis by determining symptomatic responses to eliminate causes for the problem, focuses on isolating the probable cause and documents solutions in the Help Desk Knowledge Database. As necessary, coordinates problem identification with programmers, analysts, software engineers, and/or trainers to develop and offer responsive solutions to allow continued functionality. The HDT2 can work with minimal supervision.	High School Diploma  Completes HDI within 1 year of hire	3 years of relevant experience
Help Desk Technician 3 (HDT3)	The HDT3 has demonstrated proficiency gained from specialized training and hands-on help desk environments. The HDT3 responds to telephone and e-mail problem reports by working to identify and duplicate hardware, software and application problems reported by users. The HDT3 performs root cause analysis by determining symptomatic responses to eliminate causes for the problem, focuses on isolating the probable cause and documents solutions in the Help Desk Knowledge Database. As necessary, coordinates problem identification with programmers, analysts, software engineers, and/or trainers to develop and offer responsive solutions to allow continued functionality. The HDT3 typically leads a Help Desk Call Center.	Associate's Degree or equivalent  Maintains HDI certification	2 years of relevant experience
Inventory Control Specialist (ICS)	The ICS is responsible for maintaining current records for property within his/her assigned custodial area. The ICS ensures complete and accurate data entry into approved inventory control systems and provides reports of surveys (ROS) as required. The ICS assists with all equipment refreshes, supporting the packaging and shipping of equipment and preparing equipment for return or disposal. The ICS responds to adverse incidents of loss or theft of property, creating and maintaining appropriate documentation and reports.	Associates Degree or equivalent	2 years of relevant experience
IT Consultant Senior (ITCS)	The ITCS manages medium to large complex IT projects and major phases of very large projects, manages the fact finding, analysis, and development of hypothesis/ conclusions, production of final reports and delivery of presentations. The ITCS is responsible for ensuring that the project delivers to client expectations on time and to budget and has expert knowledge of practice, consulting group, and matrixes organization	Bachelor's Degree or equivalent	8 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	operations and business objectives as well as in-depth knowledge of market/industry and service line.		
IT Security Specialist 1 (ITSS1)	The ITSS1 has a basic understanding of the certification and accreditation (C&A) process, the development of systems security plans (SSPs) and supports more senior IA specialists with the preparation of C&A and SSP documentation. The ITSS1 can also review systems for security control compliance, provide support to Information Systems Security Officers (ISSOs) and perform research and validation on security documentation.	High School Diploma	3 years of relevant experience
IT Security Specialist 4 (ITSS4)	The ITSS 4 can advise and assist customers with the Lifecycle Certification and Accreditation (C&A) process and developing a Systems Security Plan (SSP). The ITSS4 maintains responsibility for processing all customer efforts through the various facets of the Certification and Accreditation (C&A) and Assessment and Authorization (A&A) processes. The ITSS4 translates technical information into clear, readable documents and presentations to be used by technical and non-technical personnel. The ITSS4 applies advanced principles, theories, and concepts to job assignments and contribute to the development of new ideas and principles and can solve uniquely complex problems and work under consultative direction. The ITSS4 represents the organization to internal and external customers and works on long-range programs and objectives. ITSS4s provide advice to the organization and on overall functional strategic planning.	Bachelor's Degree or equivalent	7 years of relevant experience
Network Engineer 1 (NE1)	The NE1 analyzes network characteristics such as traffic, connect time, transmission speeds, packet sizes, and throughput. The NE1 assists more senior network engineers with the installation, removal and modifications to network components. The NE1 supports more senior network engineers with user support and third-party vendors.	High School Diploma	2 years of relevant experience
Network Engineer 2 (NE2)	The NE2 evaluates network hardware and software, troubleshoots LAN/MAN/WAN and other network related problems, and provides technical expertise for performance and configuration of networks. The NE2 performs general LAN/MAN/WAN administration, provides technical leadership in the integration and testing of complex large-scale computer integrated networks, and develops schedules for conversions and cutovers. The NE2 supports the Network Engineer 3 with management of the network operations center	Associate's Degree or equivalent	3 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	(NOC). The NE2 supervises the maintenance of network systems and supports the Network Engineer 3 with the coordination of network activities with all responsible users and sites. The NE2 can be assigned as a Network Team Lead of a small network project.		
Network Engineer 3 (NE3)	The NE3 Provides support for technical direction and engineering expertise for communications (LAN/MAN/WAN) systems infrastructure activities, including network planning, designing, and implementing communications infrastructure requirements for buildings and systems. Ensures that adequate and appropriate planning is provided to direct building architects and planners in building communications spaces, networks, and media pathways to meet industry standards. Interfaces with internal and external customers and vendors to determine communications infrastructure needs. The NE3 typically manages a Network Operations Center (NOC).	Bachelor's Degree or equivalent	6 years of relevant experience
Network Engineer – Principal (NE-P)	The NE-P designs and implement projects that cross the Network Operations and Computer Net Defense domains and can design and configure test configurations on a variety of networking devices, servers, firewalls, IDS/IPS, SAN, and VPN products and associated software components. The NE-P has an understanding and knowledge of new technologies and tools. The NE-P has strong communications skills, including the ability to create and maintain presentation and documentation materials and occasional demonstrations to internal and external stakeholders. The NE-P has the knowledge and comprehensive understanding of systems development lifecycle, network operations, network management, network defense, systems troubleshooting, NIST IA certification and accreditation process and tools, systems or systems analysis, Windows and Unix/Linux operating systems, virtualization configuration and operations, scripting languages, server virtualization, systems development lifecycle, systems engineering role throughout lifecycle, and is able to handle seldom and unusually occurring job events within the competency areas of detailed knowledge.	Bachelor's Degree or equivalent	10 years of relevant experience
Program Manager 3 (PM3)	The PM3 directs the performance of a variety of related projects, which may be organized by technology, program or client. Acts as the overall lead, manager and administrator for the contract effort. The PM3 has experience in project development from inception to deployment, expertise in the management and control	Bachelor's Degree or equivalent	10 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	of funds and resources using complex reporting mechanisms, demonstrated capability in managing multi-task contracts and/or subcontracts of various types and complexity. The PM3 serves as the primary interface and point of contact with government program authorities and representatives on technical and program/project issues. The PM3 can also be assigned as a Senior IT Security Consultant.		
Project Technical Manager (PTM)	The PTM provides project technical guidance responsibility for system implementation at site, including planning and coordinating project activities and staff, and ensuring quality and schedule compliance.	Bachelor's Degree or Equivalent	5 years of relevant experience
Relocation Analyst 2 (RA2)	The RA2 develops risk assessment reports based on review of SSP and interviews with developer/customer, assess systems against Intelligence Community Information Assurance policies and regulations, analyze risk, recommend mitigating countermeasures, and writes short, succinct risk assessment and certification reports for submission. Assemble and submit risk assessment elements of C&A packages to the Principal Accreditation Authority/Designated Accreditation Authority. The RAA2 has a solid understanding of the Risk Management Framework principles and best practices for achievement of risk-free systems.	Bachelor's Degree or equivalent	8 years of relevant experience
Relocation Analyst 3 (RA3)	The RA3 develops risk assessment reports based on review of SSP and interviews with developer/customer, assess systems against Intelligence Community Information Assurance policies and regulations, analyze risk, recommend mitigating countermeasures, and writes short, succinct risk assessment and certification reports for submission. Assemble and submit risk assessment elements of C&A packages to the Principal Accreditation Authority/Designated Accreditation Authority. The RAA3 has a solid understanding of the Risk Management Framework principles and best practices for achievement of risk-free systems.	Bachelor's Degree or equivalent	12 years of relevant experience
Relocation Analyst/Help Desk Specialist (RAHD)	The RAHD provides support to relocation efforts. The RAHD has a working knowledge of relocation activities and has had exposure to physical and logical data center relocation activities.	High School Diploma	3 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
RF Engineer	The RF Engineer designs, analyzes, develops, and modifies RF equipment and systems. The RF Engineer has a knowledge of test methods including system validation, analyzing test data and developing interface standards and test plans/test procedures.	Bachelor's degree or equivalent	3 years of relevant experience
Security C&A (SC&A)	The SC&A advises and assists customers with the Lifecycle Certification and Accreditation (C&A) process and developing a Systems Security Plan (SSP). The SC&A acts as C&A project register, managing the C&A process, developing risk assessment reports, and, based on review of the SSP and interviews with developer/customer, can assess systems against Intelligence Community Information Assurance policies and regulations. The SC&A analyzes risks, recommends mitigating countermeasures, writes short, succinct risk assessment and certification reports for submission, and assembles and submits C&A packages.	Bachelor's Degree or equivalent	4 years of relevant experience
Subject Matter Expert 2	The SME 2 generally has an advanced degree, but it is not required. A person is typically designated as a SME by a consistent and widespread reputation across the community and discipline in which they work and it is indicative of compensation which is well above the norm is solely based on degree or years of experience.	Bachelor's Degree or equivalent	8 years of relevant experience in the SME field
Subject Matter Expert 3	The SME 3 has an advanced degree. A person is typically designated as a SME by a consistent and widespread reputation across the community and discipline in which they work and it is indicative of compensation which is well above the norm is solely based on degree or years of experience.	Master's Degree or equivalent	12 years of relevant experience
Support Center Analyst 1 (SCA1)	The SCA1 demonstrates proficiency gained from specialized training in supporting help desk topics of a more technical nature that require an understanding of the technologies supported by the call center that allows this individual to take a call, understand the nature of the issue and resolve the problem without additional assistance in 60% of all call cases. The SCA1 responds to telephone and e-mail problem reports by working to identify and resolve hardware and/or software-related problems.	High School Diploma  Requires HDI certification	2 years of relevant experience
Support Center Analyst 2 (SCA2)	The SCA2 demonstrates proficiency gained from specialized training in supporting help desk topics of a more technical nature that require an understanding of the technologies supported by the call center that allows this individual to take a call, understand the nature of the issue and resolve the problem without additional assistance in 90% of all call cases. The SCA2 responds to telephone and e-mail problem reports by working to	High School Diploma  Requires HDI certification	3 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	identify and resolve hardware and/or software-related problems.		
Support Center Analyst 3 (SCA3)	The SCA3 demonstrates proficiencies gained from specialized training in supporting help desk topics of a more technical nature that require a complete understanding of the technologies supported by the call center. The SCA3 provides guidance and support to lower tier support personnel and responds to telephone and e-mail problem reports by working to identify, duplicate for knowledge base development and resolve hardware and/or software-related problems. The SCA3 performs root cause analysis by determining symptomatic responses to eliminate dysfunctional circumstances and focusing on isolating the probable cause. The SCA3 has experience in customer service using a Trouble Management System (TMS) and/or other error monitoring and tracking tools.	High School Diploma  Requires HDI certification	4 years of relevant experience
Support Specialist 1 (SS1)	The SS1 configures and installs new personal computer systems and reviews, monitors and upgrades existing personal computer systems. The SS1 assists with determining user specifications for hardware and software. The SS1 builds/upgrades basic hardware and installs software to meet user needs and assists Support Specialist 2 and 3 staff as needed.	High School Diploma	Up to 1 year of relevant experience
Support Specialist 2 (SS2)	The SS2 supports users by troubleshooting hardware, software, and printer problems and end user support and training. The SS2 has experience with configuring and connecting laptops and desktops to a network and troubleshooting connectivity issues.	High School Diploma	2 years of relevant experience
Support Specialist 3 (SS3)	The SS3 has demonstrated supervisory skills in managing technical and/or program laptop, desktop and server support projects or demonstrated independence in execution of such projects. The SS3 also demonstrates progressive experience and independence executing quality assurance, configuration management, technical publications and material handling and/or assembly is necessary. The SS3 establishes and maintains processes for evaluating and controlling software/hardware/documentation throughout the product life cycle and has demonstrated experience with the use of automated tools and processes.	High School Diploma	3 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
Systems Analyst 1	The Systems Analyst 1 analyzes, evaluates, and modifies existing or proposed systems and related devices. The Systems Analyst 1 coordinates with users to ensure timely and efficient manufacturer's software release installation. The Systems Analyst 1 may design, encode, test and debug programs or user-defined modifications.	Bachelor's degree or equivalent	4 years relevant experience
Systems Engineer 1 (SysE1)	The SysE1 analyzes functional business requirements and design specifications for functional activities and assists with the identification and repair of problems within existing systems. The SysE1 supports with the design and implementation of new systems, enhances the existing systems and participates in analysis, design and new construction of next generation IT systems. The SE1 supports functional security tools, hardware and software operations and maintenance (O&M), development of enhancement requirements and design specifications for cybersecurity activities, and assists with the identification and repair of problems within existing security systems. The SE1 provides support with the design and implementation of new construction of next generation IT systems. The Security Engineer 1 has experience as a systems engineer on one or more IT platforms.	Associate's Degree or equivalent	1 year of relevant experience
Systems Engineer 2 (SysE2)	The SysE2 analyzes functional business requirements and design specifications for functional activities and provides identification and repair for the problems within existing systems. The SysE2 assists with design and implementation of new systems, enhances the existing systems and participates in analysis, design and new construction of next generation IT systems. The SysE2 is responsible for understanding the needs of the customers and the realities of commercially available IT products, and creating requirements that will allow implementation by the architecture and engineering team and COTs products. The SE2 supports functional security tools, hardware and software operations and maintenance (O&M), development of enhancement requirements and design specifications for cybersecurity activities, and assists with the identification and repair of problems within existing security systems. The SE2 has experience as a systems engineer on one or more IT platforms and is responsible for understanding the needs of the customers and the realities of commercially available cybersecurity IT products, and creating requirements that will allow implementation by the architecture and engineering team and COTs products.	Associate's Degree or equivalent	3 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
Systems Engineer 3 (SysE3)	<p>The SysE3 provides identification and repair of problems within existing systems, designs and implements new systems and implements enhancements and technical upgrades/refreshes for existing systems. the SysE3 participates in the analysis, design and new construction of next generation IT systems. The SysE3 is responsible for understanding the needs of the customers and the realities of commercially available IT products, and creating requirements that will allow implementation by the development team. The SysE3 has experience as a systems engineer team lead on one or more IT platforms. The SE3 supports functional security tools, hardware and software operations and maintenance (O&amp;M), development of enhancement requirements and design specifications for cybersecurity activities, and assists with the identification and repair of problems within existing security systems. The SE3 provides support with the design and implementation of new construction of next generation IT systems. The SE 3 is responsible for understanding the needs of the customers and the realities of commercially available cybersecurity IT products, and creating requirements that will allow implementation by the architecture and engineering team and COTs products. The SE3 has been a team lead on one or more IT platforms such as with Unix/Windows server operating systems.</p>	Bachelor's Degree or equivalent	6 years of relevant experience
Systems Engineer 4 (SysE4)	<p>The SysE4 provides Subject Matter Expert identification and repair of problems within existing systems, designs and implements new systems and designs, schedules and implements the technology refresh and/or enhancement of existing systems. The SysE4 guides the analysis, design and new construction of next generation IT systems and is the lead liaison responsible for understanding the needs of the customers and the realities of commercially available IT products, and creating requirements that will allow implementation by the development team. The SysE4 is familiar with and uses ITIL, SEI/CMM processes in the development of designs, schedules and implementation activities. The SysE4 has a demonstrated knowledge of project scheduling software applications. The SE4 provides Subject Matter Expert identification and repair of problems within existing cybersecurity systems, designs and implements new systems and designs, schedules and implements the technology refresh and/or enhancement of existing systems. The SE4 guides the analysis, design and new construction of next</p>	Bachelor's Degree or equivalent	12 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
	generation cybersecurity IT systems and is the lead liaison responsible for understanding the needs of the customers and the realities of commercially available IT products, and creating requirements that will allow implementation by the development team.		
Technician 2 (T2)	The T2 performs tests on systems components to determine operability, trouble-shooting, making required repairs, and installing and maintaining computer networks.	Associate's Degree or equivalent	2 years of relevant experience
Technician 3 (T3)	The T3 performs tests on systems components to determine operability, trouble-shooting, making required repairs, and installing and maintaining computer networks. The T3 can also be assigned as a team lead.	Associate's Degree or equivalent	3 years of relevant experience
Test Engineer – Junior	The Test Engineer - Junior performs relatively routine tasks related to the testing of raw materials, manufactured products or manufacturing processes, writes test procedures, investigates and analyzes test failures, reviews and evaluates in-process rejections and trends, recommending corrective action as appropriate. The Test Engineer - Junior designs test procedures and provides assistance in the areas of productivity, manufacturing processing, equipment and process improvement.	Associate's Degree or equivalent	2 years of relevant experience
Training Specialist 1 (TS1)	The TS1 designs and conducts company training programs, monitors and reports the effectiveness of training of employees during various training phases. The TS1 assists the Training Specialist 3 with initial training plan design and existing training plan enhancements and upgrades the training plans on all future updates. The TS1 has knowledge of commonly-used concepts, practices, and procedures applicable to user training and relies on instructions and pre-established guidelines to perform the functions of the job. The TS1 normally works under immediate supervision of a Training Specialist 2.	High School Diploma	3 years of relevant experience

Labor Category	Description	Education Requirement	Experience Requirement
Training Specialist 2 (TS2)	The TS2 designs and conducts company training programs, monitors and reports the effectiveness of training on employees during the orientation period and for career development, is involved in initial plan design and existing plan enhancements. The TS2 is familiar with a variety of the field's concepts, practices, and procedures and relies on extensive experience and judgment to plan and accomplish goals. The TS2 performs a variety of tasks and may lead and direct the work of others. A wide degree of creativity and latitude is expected.	Associate's Degree or equivalent	2 years of relevant experience
UNIX Relocation Analyst 2	The UNIX Relocation Analyst II provides support for relocation of Wintel, FW, NW, Enterprise Monitoring, SAN, AIX Web and Middle Tier Apps. Additionally, the UNIX relocation Analysts is experienced in application architecture analysis.	Bachelor's Degree or equivalent	4 years of relevant experience
VOIP Consultant	The VOIP Consultant is experienced with data networking, web services technologies, server platforms and operating systems, software development and service development lifecycles.	Bachelor's Degree or equivalent	8 years of relevant experience

**KNIGHT POINT'S AUTHORIZED GSA SCHEDULE CONTRACT PRICING  
SERVICES**

Labor Category	GSA Price
Applications Consultant – Enterprise Systems	\$154.74
Application Consultant – Senior	\$185.69
Business Process Consultant (BPC)	\$191.13
Configuration Management Specialist 1 (CMS1)	\$64.66
Configuration Management Specialist 2 (CMS2)	\$71.58
Data Architect	\$103.15
Data Architect – Principal	\$147.52
Data Migration Technician 2 (DMT2)	\$154.13
Data Migration Technician 3 (DMT3)	\$184.97
Database Administrator 1 (DBA1)	\$77.42
Database Administrator 2 (DBA2)	\$79.04
Database Administrator 3 (DBA3)	\$100.12
Database Administrator 4 (DBA4)	\$115.14
Database Architect Principal (DBAP)	\$147.52
Disaster Recovery Specialist 1	\$83.79
Documentation Specialist 1 (DS1)	\$58.32
Engineer 2	\$82.91
Enterprise Architect	\$158.21
Enterprise Architect – Senior	\$197.71
Financial Manager	\$107.25
Help Desk Technician 1 (HDT1)	\$42.00
Help Desk Technician 2 (HDT2)	\$45.83
Help Desk Technician 3 (HDT3)	\$49.64
Inventory Control Specialist (ICS)	\$74.61
IT Consultant Senior (ITCS)	\$118.21
IT Security Specialist 1 (ITSS1)	\$67.15
IT Security Specialist 4 (ITSS4)	\$123.13
Network Engineer 1 (NE1)	\$58.13
Network Engineer 2 (NE2)	\$91.16
Network Engineer 3 (NE3)	\$116.57
Network Engineer – Principal (NE-P)	\$146.39
Program Manager 3 (PM3)	\$165.24
Project Technical Manager (PTM)	\$112.48
Relocation Analyst 2 (RA2)	\$126.02
Relocation Analyst 3 (RA3)	\$149.86
Relocation Analyst/Help Desk Specialist (RAHD)	\$69.94
RF Engineer	\$84.27
Security C&A (SC&A)	\$94.96
Subject Matter Expert 2	\$161.31
Subject Matter Expert 3	\$321.85
Support Center Analyst 1 (SCA1)	\$39.21
Support Center Analyst 2 (SCA2)	\$50.92
Support Center Analyst 3 (SCA3)	\$56.49
Support Specialist 1 (SS1)	\$34.84
Support Specialist 2 (SS2)	\$37.84

Labor Category	GSA Price
Support Specialist 3 (SS3)	\$39.63
Systems Analyst 1	\$54.48
Systems Engineer 1 (SysE1)	\$71.89
Systems Engineer 2 (SysE2)	\$96.51
Systems Engineer 3 (SysE3)	\$111.92
Systems Engineer 4 (SysE4)	\$191.19
Technician 2 (T2)	\$68.60
Technician 3 (T3)	\$72.21
Test Engineer – Junior	\$78.67
Training Specialist 1 (TS1)	\$48.56
Training Specialist 2 (TS2)	\$64.31
UNIX Relocation Analyst 2	\$82.20
VOIP Consultant	\$143.86

## ***COMMUNICATIONS AS A SERVICE OFFERINGS***

### **CLIN 0001 CATEGORY 1 SWITCHES CONUS**

Category 1 of this contract focuses on network switch technology and the features required in a datacenter. The modules listed in SLINs 0001BA-0001BJ should be priced on a per module basis.

#### ***SLIN 0001AA-0001AC CATEGORY 1 SWITCHES***

##### **Tier 1a (Small)**

This tier is the lowest category of switch used on this contract. This type of switch would be classified as an access layer switch used for layer 2 connectivity in the data center. This switch needs to support the data center class requirements but remain cost effective enough to be deployed on a larger scale. Features typically found in this class of switch would be: port channeling, modular expansion for uplinks, port security, layer 2 access control, dual redundant power supplies, multicast, and port mirroring.

Size: 1 Gbps Port

#### ***SLIN 0001AD-0001AF CATEGORY 1 SWITCHES***

##### **Tier 1b (Small)**

This tier is the lowest category of switch used on this contract. This type of switch would be classified as an access layer switch used for layer 2 connectivity in the data center capable of 10Gbps. This switch needs to support the data center class requirements but remain cost effective enough to be deployed on a larger scale. Features typically found in this class of switch would be: port channeling, modular expansion for uplinks, port security, layer 2 access control, dual redundant power supplies, multicast, and port mirroring.

Size: 1 Gbps and 10 Gbps Port

#### ***SLIN 0001AG-0001AJ CATEGORY 1 SWITCHES***

##### **Tier 2a (Medium)**

This tier encompasses the switch models that meet the typical data center class layer 2 switching requirements found in the aggregation layer. This category contains the features found in the tier 1 class switches as well as some of the features found in the tier 3. This type of switch has the ability to switch network traffic at a high rate of speed, provide redundant configurations, and remain scalable. Features typically found in this class of switch would be: Port channeling, hot swappable modules, multicast, port mirroring, dual redundant power supplies, port security, and IPv6.

Size: 1 Gbps Port

#### ***SLIN 0001AK-0001AM CATEGORY 1 SWITCHES***

##### **Tier 2b (Medium)**

This tier encompasses the switch models that meet the typical data center class layer 2 switching requirements found in the aggregation layer capable of 10 Gbps. This category contains the features found in the tier 1 class switches as well as some of the features found in the tier 3. This type of switch has the ability to switch network traffic at a high rate of speed, provide redundant configurations, and remain

scalable. Features typically found in this class of switch would be: Port channeling, hot swappable modules, multicast, port mirroring, dual redundant power supplies, port security, and IPv6.

Size: 1 Gbps and 10 Gbps Port

#### ***SLIN 0001AN-0001Q CATEGORY 1 SWITCHES***

##### **Tier 3a (Large)**

This tier encompasses the higher end switches that would typically be found in a Data Center, Enterprise, or Core device classes. These devices are not only capable of supporting greater throughput and meeting higher density port requirements but also have the features and options of supporting the latest technologies found in an enterprise class network. This type of switch will need to support high availability, operational simplicity, and have the scalability to meet the requirements of a cutting edge IT switch. Features typically found in this class of switch would be: Port channeling, VLAN management, high throughput, hot swappable modules, hardware acceleration, dual redundant power supplies, IPv6 Quality of Service (QOS), and virtualization.

Size: 1 Gbps Port

#### ***SLIN 0001AR-0001AT CATEGORY 1 SWITCHES***

##### **Tier 3b (Large)**

This tier encompasses the higher end switches that would typically be found in a Data Center, Enterprise, or Core device classes capable of 10 Gbps. These devices are not only capable of supporting greater throughput and meeting higher density port requirements but also have the features and options of supporting the latest technologies found in an enterprise class network. This type of switch will need to support high availability, operational simplicity, and have the scalability to meet the requirements of a cutting edge IT switch. Features typically found in this class of switch would be: Port channeling, VLAN management, high throughput, hot swappable modules, hardware acceleration, dual redundant power supplies, IPv6 Quality of Service (QOS), and virtualization.

Size: 1 Gbps and 10 Gbps Port

#### ***SLIN 0001BA - 0001BJ CATEGORY 1 TIER 3 SWITCHES – SERVICE MODULES***

##### **Application Control Engine (ACE Module)**

The ACE module provides a broad set of intelligent Layer 4 load-balancing and Layer 7 content-switching technologies that support increased availability, acceleration, and security for data center applications. Data center server efficiency is greatly improved through highly flexible application traffic management, offloading of CPU intensive tasks such as SSL acceleration, and TCP session management. Data center security is enhanced through deep packet inspection and blocks of malicious attacks.

##### **Content Switching Module (CSM)**

A content Switching Module provides a high-performance load-balancing solution for large enterprise and Internet Service Provider networks. The CSM supports a wide range of IP Protocols (Layer 2 through 7), Load-Balancing Algorithms, URL and Cookie-Based Load Balancing, High Availability, Connection Redundancy, and User Session Persistence. Geographical load-balancing environments can also be

supported through DNS and Global Server Load Balancing services. High Performance Distributed Denial of Service (DDoS) Protection and Firewall Load Balancing can be utilized to increase Data center security.

### **Content Switching Module with Secure Sockets Layer (CSM-S)**

A Content Switching Module with Secure Sockets Layer (SSL) functionality provides advanced Layer 4 – 7 content switching and load balancing capabilities. The added SSL acceleration functionality reduces load on servers by offloading the CPU intensive task of encrypting/decrypting SSL transactions. The CSM-S supports a wide range of IP Protocols (Layer 2 through 7), Load-Balancing Algorithms, URL and Cookie-Based Load Balancing, High Availability, Connection Redundancy, and User Session Persistence. Geographical load-balancing environments can also be supported through DNS and Global Server Load Balancing services. High Performance Distributed Denial of Service (DDoS) Protection and Firewall Load Balancing can be utilized to increase Data center security.

### **Firewall Services Module (FSWM)**

The FSWM is a high-speed, integrated firewall module for the Cisco Catalyst 6500 series switch. The FSWM allows any port on the 6500 switch to operate as a firewall port and integrates firewall security inside the network infrastructure. The FSWM provides for integrated stateful inspection with application and protocol inspection engines that examine network flows at Layers 4-7.

### **Intrusion Detection System Module (IDSM-2)**

The Cisco IDSM-2 protects switched environments by integrating full-featured Intrusion Prevention System (IPS) functions directly into the network infrastructure through the widely deployed Cisco Catalyst chassis. This integration allows the user to monitor traffic directly off the switch backplane—a logical platform for additional services such as firewall, VPN, and IPS. Detailed inspection of Layer 2-7 traffic protects the network from policy violations, vulnerability exploitations, and anomalous activity.

### **IPSec VPN Shared Port Adapter (VPN SPA)**

The IPSec VPN SPA delivers scalable VPN performance for Cisco Catalyst 6500 Series Switches and provides VPN hardware acceleration for both IPSec and generic routing encapsulation (GRE), comprehensive support of site-to-site IPSec, remote-access IPSec, and certificate authority/public key infrastructure (CA/PKI). The supporting IOS Software supports secure, reliable transport of virtually any type of network traffic, including multiprotocol, multicast, and IP telephony across the IPSec VPN. Diverse Networks are supported via Dynamic Multipoint VPNs (DMVPNs) for meshed and hierarchical network topologies.

### **Network Analysis Module (NAM-2)**

This module provides for powerful network management to manage complex campus, data center, and WAN edge environments. Efficiency and manageability are simplified by granular traffic analysis, comprehensive application performance metrics, voice analytics, and deep packet captures. The module also provides for historical analysis utilizing an embedded performance database.

### **Enhanced FlexWAN Module**

The Enhanced FlexWAN module provides multiprotocol routing support with full Internet route connectivity for speeds ranging from serial RS-232 to OC-3. Enhanced FlexWAN modules can accept up to two Cisco 7200/7500 WAN port adapters, which deliver WAN consolidation and extend quality of service (QoS) and traffic management capabilities over WAN segments. The Enhanced FlexWAN modules support ATM and POS OC-3 links and channelized, clear-channel port adapters at speeds from DS0 to T3/E3. The Enhanced FlexWAN module also provides connectivity to the crossbar fabric and enhancements in processor speed and onboard memory.

### **Wan Module - Shared Port Adapter Interface Processor (SIP) Module**

The modular port adapter and programmable interface processor supports up to 10 Gbps of bandwidth, a wide range of interfaces, and provides the unique ability to combine both Layer 2 and Layer 3 services on the same line card.

### **CLIN 0002 CATEGORY 2 ROUTERS CONUS**

Routers are specialized hardware-based network communications devices that interconnect two or more computer networks and selectively interchange packets of data between them. The modules listed in SLINs 0002BA-0002BC, 0002BH should be priced on a per module basis.

#### ***SLIN 0002AA-0002AC, 0002AV, 0002AY CATEGORY 2 ROUTERS***

#### **Tier 1a (Small): 4 Gbps or less of aggregate data passed through the device**

A small router is typically optimized for lower performance needs, such as use within a branch or small office setting. Features of routers in this tier include the routing of multiple communications protocols, including IPv4 and IPv6, using open-standards based routing protocols such as OSPF and BGP, and provide packet filtering capabilities using access-control lists. Minimal scalability through additional line cards to allow for interface expansion. Redundancy of power input is common in this tier of router. Routers in this tier typically pass 4 Gbps or less of aggregate data through the device when averaged across a 30 day period.

Size: 1 Gbps Port

#### ***SLIN 0002AD-0002AF CATEGORY 2 ROUTERS***

#### **Tier 1b (Small): 4 Gbps or less of aggregate data passed through the device**

A small router is typically optimized for lower performance needs, such as use within a branch or small office setting. Features of routers in this tier include the routing of multiple communications protocols, including IPv4 and IPv6, using open-standards based routing protocols such as OSPF and BGP, and provide packet filtering capabilities using access-control lists. Minimal scalability through additional line cards to allow for interface expansion. Redundancy of power input is common in this tier of router. Routers in this tier typically pass 4 Gbps or less of aggregate data through the device when averaged across a 30 day period.

Size: 10 Gbps Port

#### ***SLIN 0002AG-0002AJ, 0002AW, 0002AZ CATEGORY 2 ROUTERS***

#### **Tier 2a (Medium): 100 Gbps or less of aggregate data passed through the device**

A router in the medium tier is typically optimized for performance needs, such as use within a medium to large office setting. Features of routers in this tier include the routing of multiple communications protocols, including IPv4, IPv6 and MPLS, using open-standards based routing protocols such as OSPF and BGP, packet filtering capabilities using access-control lists, quality of service tagging, hardware encryption and 10 Gbps interface availability. Medium tier devices typically exhibit significant scalability to allow for new capabilities and interface expansion through the installation of additional line cards and modules. Redundancy of hardware through the installation of secondary line cards and redundant power supplies are common in this tier of routers. Routers in this tier typically pass 100 Gbps or less of aggregate data through the device when averaged across a 30 day period.

Size: 1 Gbps Port

***SLIN 0002AK-0002AM CATEGORY 2 ROUTERS***

**Tier 2b (Medium): 100 Gbps or less of aggregate data passed through the device**

A router in the medium tier is typically optimized for performance needs, such as use within a medium to large office setting. Features of routers in this tier include the routing of multiple communications protocols, including IPv4, IPv6 and MPLS, using open-standards based routing protocols such as OSPF and BGP, packet filtering capabilities using access-control lists, quality of service tagging, hardware encryption and 10 Gbps interface availability. Medium tier devices typically exhibit significant scalability to allow for new capabilities and interface expansion through the installation of additional line cards and modules. Redundancy of hardware through the installation of secondary line cards and redundant power supplies are common in this tier of routers. Routers in this tier typically pass 100 Gbps or less of aggregate data through the device when averaged across a 30 day period.

Size: 10 Gbps Port

***SLIN 0002AN-0002AQ, 0002AX, 0002CA CATEGORY 2 ROUTERS***

**Tier 3a (Large): 2 Tbps or less of aggregate data passed through the device**

A router in the large tier is typically optimized for performance needs, such as use within a medium to large office setting. Features of routers in this tier include the routing of multiple communications protocols, including IPv4, IPv6 and MPLS, using open-standards based routing protocols such as OSPF and BGP, packet filtering capabilities using access-control lists, quality of service tagging, hardware encryption and multiple 10 Gbps interface availability. Large tier devices typically exhibit robust scalability to allow for new capabilities and interface expansion through the installation of additional line cards and modules. Redundancy of hardware through the installation of secondary line cards and redundant power supplies are common in this tier of routers. Routers in this tier typically pass 2 Tbps or less of aggregate data through the device when averaged across a 30 day period.

Size: 1 Gbps Port

## ***SLIN 0002AR-0002AT CATEGORY 2 ROUTERS***

### **Tier 3b (Large): 2 Tbps or less of aggregate data passed through the device**

A router in the large tier is typically optimized for performance needs, such as use within a medium to large office setting. Features of routers in this tier include the routing of multiple communications protocols, including IPv4, IPv6 and MPLS, using open-standards based routing protocols such as OSPF and BGP, packet filtering capabilities using access-control lists, quality of service tagging, hardware encryption and multiple 10 Gbps interface availability. Large tier devices typically exhibit robust scalability to allow for new capabilities and interface expansion through the installation of additional line cards and modules. Redundancy of hardware through the installation of secondary line cards and redundant power supplies are common in this tier of routers. Routers in this tier typically pass 2 Tbps or less of aggregate data through the device when averaged across a 30 day period.

Size: 10 Gbps Port

## **CATEGORY 2 ROUTER SERVICE MODULES**

### ***SLIN 0002BD***

#### SONET Interface module - small

A synchronous optical network (SONET) is transport oriented, protocol neutral transport method. It can run over a range of bandwidths. SONET may carry ATM, Ethernet, and other circuit oriented protocols over fiber optic media. When used to carry Ethernet frames, it is referred to as "packet over SONET", or POS. SONET connections are usually made directly to a communications device such as a switch or router.

SONET interface modules may be installed into hardware already deployed to the field. Modules come in various speeds. Varying bandwidth does not change SONET. It only changes the capacity of the transport.

Performance: OC-3 (155 megabits per second)

### ***SLIN 0002BE***

#### SONET Interface module - medium

A synchronous optical network (SONET) is transport oriented, protocol neutral transport method. It can run over a range of bandwidths. SONET may carry ATM, Ethernet, and other circuit oriented protocols over fiber optic media. When used to carry Ethernet frames, it is referred to as "packet over SONET", or POS. SONET connections are usually made directly to a communications device such as a switch or router.

SONET interface modules may be installed into hardware already deployed to the field. Modules come in various speeds. Varying bandwidth does not change SONET. It only changes the capacity of the transport.

Performance: OC-12 (622 megabits per second)

## ***SLIN 0002BF***

### SONET Interface module - large

A synchronous optical network (SONET) is transport oriented, protocol neutral transport method. It can run over a range of bandwidths. SONET may carry ATM, Ethernet, and other circuit oriented protocols over fiber optic media. When used to carry Ethernet frames, it is referred to as "packet over SONET", or POS. SONET connections are usually made directly to a communications device such as a switch or router.

SONET interface modules may be installed into hardware already deployed to the field. Modules come in various speeds. Varying bandwidth does not change SONET. It only changes the capacity of the transport.

Performance: OC-48 (2.5 gigabits per second)

## ***SLIN 0002BG***

### SONET Interface module - extra large

A synchronous optical network (SONET) is transport oriented, protocol neutral transport method. It can run over a range of bandwidths. SONET may carry ATM, Ethernet, and other circuit oriented protocols over fiber optic media. When used to carry Ethernet frames, it is referred to as "packet over SONET", or POS. SONET connections are usually made directly to a communications device such as a switch or router.

SONET interface modules may be installed into hardware already deployed to the field. Modules come in various speeds. Varying bandwidth does not change SONET. It only changes the capacity of the transport.

Performance: OC-192 (9.6 gigabits per second)

## **CLIN 0003 CATEGORY 3 APPLIANCES CONUS**

Application-level gateways are devices or specialized operating environments in a virtualized environment that provide protection to certain application-layer "control/data" protocols such as HTTP, HTTPS, DNS, XML and/or FTP, while commonly providing load balancing capabilities as well.

### ***SLIN 0003AA CATEGORY 3 APPLIANCES***

#### **Tier 1 - Application-level gateway**

##### **Tier 1a (Small)**

Small application-level gateways provide basic application protection, caching and/or load balancing functionalities at the enclave level. These are typically deployed directly in front of the servers they are supporting. Features include basic caching, protocol acceleration, load balancing, and application-layer communications protection. SSL termination is typically not required at this tier. Automatic configuration synchronization between redundant pairs of devices is common at this level. Remote management, redundant power and traffic monitoring are common as well.

## ***SLIN 0003AB CATEGORY 3 APPLIANCES***

### **Tier 1 - Application-level gateway**

#### **Tier 1b (Large)**

The large tier of application-level gateways provides application protection and load balancing at datacenter, DMZ or global levels. Are typically deployed at the perimeter of the network and provide caching, protocol acceleration, load balancing and application-layer communications protection services to multiple workloads at one or more sites. SSL offload is often required at this level using FIPS 140-2 compliant equipment. Large tier application-level gateways often offer DNS components to allow for load balancing across multiple sites.

## ***SLIN 0003AC CATEGORY 3 APPLIANCES***

### **Tier 2 - Firewall**

A firewall is a software based application suite or hardware based network appliance designed to permit and/or deny access to a network, enclave or data center based upon configured rules. Basic features common to each proceeding tier are high availability, NAT/PAT, application layer filtering, stateful TCP and UDP connections and packet inspection, smart application protocol support (port redirection for FTP, SQLnet, RTSP, DNS, etc.), cost effective bandwidth capability, and cost effective simultaneous connection support.

#### **Tier 2a (Small)**

Firewall servers or devices at this tier are expected to protect a small enclave or network using a limited sized rule set in support of a limited number of applications, servers and/or devices. Devices in this tier typically reside in the access layer in the hierarchical internetworking model. Features included in this tier include high availability, NAT/PAT, application layer filtering, stateful TCP and UDP connections and packet inspection, smart application protocol support (port redirection for FTP, SQLnet, RTSP, DNS, etc.). Redundant power paths are also common.

## ***SLIN 0003AD CATEGORY 3 APPLIANCES***

### **Tier 2 - Firewall**

A firewall is a software based application suite or hardware based network appliance designed to permit and/or deny access to a network, enclave or data center based upon configured rules. Basic features common to each proceeding tier are high availability, NAT/PAT, application layer filtering, stateful TCP and UDP connections and packet inspection, smart application protocol support (port redirection for FTP, SQLnet, RTSP, DNS, etc.), cost effective bandwidth capability, and cost effective simultaneous connection support.

#### **Tier 2b (Medium)**

Firewalls in this tier typically support multiple enclaves and networks and therefore the servers support multiple customers and applications. Features included in this tier commonly include all the features outlines in tier 2a above, plus virtualization capabilities, high availability, IDS capabilities, multiple site-to-site VPN connection termination, high-speed network interface connections (up to 1 Gbps per interface), and are commonly scalable to include increased capabilities and new technologies through the installation of line cards or modules. Devices in this tier typically reside in the aggregation or distribution layers of the network.

## ***SLIN 0003AE CATEGORY 3 APPLIANCES***

### **Tier 2 - Firewall**

A firewall is a software based application suite or hardware based network appliance designed to permit and/or deny access to a network, enclave or data center based upon configured rules. Basic features common to each proceeding tier are high availability, NAT/PAT, application layer filtering, stateful TCP and UDP connections and packet inspection, smart application protocol support (port redirection for FTP, SQLnet, RTSP, DNS, etc.), cost effective bandwidth capability, and cost effective simultaneous connection support.

### **Tier 2c (Large)**

Tier 2c is described as the high performance security device or server that protects entire data centers or large enterprise networks. This level device should support features included in the tiers above, plus upgradable hardware, support for multiple high speed network interface cards (1 Gbps or faster) , and are commonly scalable to include increased capabilities and new technologies through the installation of line cards or modules. Devices in this tier typically reside at the core layer of the network.

## ***SLIN 0003AF CATEGORY 3 APPLIANCES***

### **Tier 3 - Intrusion Detection System**

Category 3; Tier 3 of this contract focuses on Intrusion Detection System and the features required in a datacenter. Intrusion Detection Systems are essential to a secure and confidential computing environment.

### **Tier 3a (Small)**

Tier 3a Intrusion Detection Systems would be the smallest sensor used on the network. They would provide real-time and historical analytics based on vulnerability and anomaly based inspection methods. This data would be aggregated and sent to a central management location for processing. Tier 3a Intrusion Detection Systems should be capable of identifying vulnerabilities as well as reporting real-time security threats. Automatic trend identification and analysis should be a common function of Tier 3a Intrusion Detection Systems. Tier 3a Intrusion Detection Systems would generally support a throughput of approximately 100 Mbps.

## ***SLIN 0003AG CATEGORY 3 APPLIANCES***

### **Tier 3 - Intrusion Detection System**

Category 3; Tier 3 of this contract focuses on Intrusion Detection System and the features required in a datacenter. Intrusion Detection Systems are essential to a secure and confidential computing environment.

### **Tier 3b (Medium)**

Tier 3b Intrusion Detection Systems would incorporate all the features of a Tier 3a Sensor, however the size of the supported site or enclave would be significantly larger. Tier 3b Intrusion Detection Systems would be used to the perimeter of a large LAN or medium Campus network. Expected throughput for a Tier 3b system would be approximately 1 Gbps.

### ***SLIN 0003AH CATEGORY 3 APPLIANCES***

#### **Tier 3 - Intrusion Detection System**

Category 3; Tier 3 of this contract focuses on Intrusion Detection System and the features required in a datacenter. Intrusion Detection Systems are essential to a secure and confidential computing environment.

#### **Tier 3c (Large)**

Tier 3c Intrusion Detection Systems would incorporate all the features of Tier 3a and Tier 3b Sensors, however the size of the supported site or enclave would be significantly larger. Tier 3c Intrusion Detection Systems would be used at the top of the network topology, likely in a DMZ environment. Expected throughput for a Tier 3c system would be approximately 10 Gbps.

### ***SLIN 0003AJ CATEGORY 3 APPLIANCES***

#### **Tier 4 - SMTP Email Security Appliance**

Email security appliances are used to protect the enterprise from external attacks and prevent internal email viruses from spreading. Features typically found in this class of email security appliance are spam defense, virus defense, phishing defense, and other email related threats.

#### **Tier 4a (Small)**

This tier meets the requirements generally needed for specific application or smaller workload requirements. Features that are typically found in this class are: virus defense, phishing, mail relay.

### ***SLIN 0003AK CATEGORY 3 APPLIANCES***

#### **Tier 4 - SMTP Email Security Appliance**

Email security appliances are used to protect the enterprise from external attacks and prevent internal email viruses from spreading. Features typically found in this class of email security appliance are spam defense, virus defense, phishing defense, and other email related threats.

#### **Tier 4b (Medium)**

This tier focuses on meeting the requirements at a datacenter level and should be able to support the bandwidth, storage, and concurrent sessions to support the workloads at each center. Features that are typically found in this class are: centralized management, spam protection, virus defense, phishing defense, mail relay, attachment blocking, and data loss prevention.

### ***SLIN 0003AL CATEGORY 3 APPLIANCES***

#### **Tier 4 - SMTP Email Security Appliance**

Email security appliances are used to protect the enterprise from external attacks and prevent internal email viruses from spreading. Features typically found in this class of email security appliance are spam defense, virus defense, phishing defense, and other email related threats.

#### **Tier 4c (Large)**

This tier encompasses the higher end enterprise class appliances. Features that are typically found in this class are: centralized management, Policy enforcement, spam protection, virus defense, SMTP relay, attachment blocking, and data loss prevention.

### ***SLIN 0003AM CATEGORY 3 APPLIANCES***

#### **Tier 5 - Wan Optimizers**

This focuses on network WAN optimization and the features required in the datacenter. WAN optimization products seek to accelerate a broad range of applications accessed by distributed enterprise users via eliminating redundant transmissions, staging data in local caches, compressing and prioritizing data, and streamlining chatty protocol. WAN optimization also helps avoid packet delivery issues common in shared WAN environments.

##### **Tier 5a (Small)**

This Tier is more suitable to support individual workloads and applications. Devices in this range have the ability of supporting anywhere from 2 Mbps up to 45 Mbps throughput. It should also have the ability of supporting anywhere from 300 to 6,000 concurrent connections. This tier should have the ability to store anywhere between 80 and 400 GB of data and in most cases will be set up in standalone disk drives.

### ***SLIN 0003AN CATEGORY 3 APPLIANCES***

#### **Tier 5 - Wan Optimizers**

This focuses on network WAN optimization and the features required in the datacenter. WAN optimization products seek to accelerate a broad range of applications accessed by distributed enterprise users via eliminating redundant transmissions, staging data in local caches, compressing and prioritizing data, and streamlining chatty protocol. WAN optimization also helps avoid packet delivery issues common in shared WAN environments.

##### **Tier 5b (Medium)**

This tier is the largest tier of optimizers and runs a much more robust platform. This tier would be utilized to provide wan optimization services for an enterprise datacenter supporting multiple customer workloads and applications. It is capable of supporting from 90 Mbps up to 1 Gbps in total throughput and support from 7,500 connections to 100,000 connections. This tier should have the ability to store anywhere between 600 GB and 4.4 TB of data and would have the ability to do some sort of Raid configuration to support Storage fault tolerance.

### ***SLIN 0003AP CATEGORY 3 APPLIANCES***

#### **Tier 6 - Authentication, Authorization and Accounting (AAA) Security Server or Appliance**

The AAA Security Server or Appliance provides centralized authentication, authorization and accounting services for user access to network-based resources. Common features services that manage user access using the RADIUS, LDAP and/or TACACS+ protocols. Systems commonly provide for centralized management and the ability for multiple servers or appliances to be configured to work together using a single user database. Granular management is allowed by applying permission controls to logical grouping of equipment and users. The service can be a software package installed on a physical or virtual server, or a dedicated hardware appliance.

### ***SLIN 0003AQ CATEGORY 3 APPLIANCES***

#### **Tier 7 - Client VPN Appliance**

Client VPN appliances are an essential resource when managing our datacenter resources remotely. This function needs to support the latest features focusing on secure remote connectivity.

#### **Tier 7a (Small)**

This tier focuses on the lower capacity models of the client VPN appliances that may be used to access isolated customer enclaves or individual network resources. Although this is a lower end tier the features required will be the same. Features typically found in this tier are: SSL and IPSEC protocol support, AAA support, CAC authentication, and granular access control.

### ***SLIN 0003AR CATEGORY 3 APPLIANCES***

#### **Tier 7 - Client VPN Appliance**

Client VPN appliances are an essential resource when managing our datacenter resources remotely. This function needs to support the latest features focusing on secure remote connectivity.

#### **Tier 7b (Medium)**

This tier addresses the medium sized yet feature rich appliances that could be used on a site to site basis or for large workloads. Features typically found in this tier are: AAA support, CAC authentication, policy based client firewall, clustering, dual redundant power supplies, SSL and IPSEC protocol support, and granular access control.

### ***SLIN 0003AS CATEGORY 3 APPLIANCES***

#### **Tier 7 - Client VPN Appliance**

Client VPN appliances are an essential resource when managing our datacenter resources remotely. This function needs to support the latest features focusing on secure remote connectivity.

#### **Tier 7c (Large)**

This tier encompasses the higher end enterprise class appliances with greater scalability and support for greater number of users, bandwidth, and functionality. Features typically found in this tier are: AAA support, CAC authentication, policy based client firewall, and granular access control.

### ***SLIN 0003AT CATEGORY 3 APPLIANCES***

#### **Tier 8 - Protocol Analyzer**

This function describes the requirements needed in a network packet capture and protocol analysis appliance.

##### **Tier 8a (Small)**

Tier 9a protocol analyzers allow for verification and analysis of traffic flowing between a multiple number of devices and networks. Features include gathering and analyzing network statistics on bandwidth and response times, protocol analysis to determine application functionality, and protocol analysis to identify anomalous or erroneous traffic types or patterns. It is common for tier 9a devices to capture and identify network intrusion attempts or network misuse by users. Network forensics capabilities are common at this tier as well. The ability to remotely administer the devices allows for ease in troubleshooting issues at remote locations. Devices at this tier also commonly provide detailed protocol analysis enterprise wide to isolate application response time problems across numerous networks. Long term trending analysis is also done at this level to determine the adequacy of network connections and to anticipate future network bandwidth requirements. Tier 9b devices would also have the responsibility of monitoring SLA enforcement for network and application availability as well as application response times. The functions at this level occur across multiple networks and physical locations. Interface speeds for these devices are usually less than 8 Gbps.

### ***SLIN 0003AU CATEGORY 3 APPLIANCES***

#### **Tier 8 - Protocol Analyzer**

This function describes the requirements needed in a network packet capture and protocol analysis appliance.

##### **Tier 8b (Medium)**

This level includes all of the functions listed under Tier 9a while supporting interface speeds and capture rates at or above 8 Gbps.

### ***SLIN 0003AV CATEGORY 3 APPLIANCES***

#### **Tier 9 - DNS Appliance**

##### **Tier 9a (Small)**

A DNS appliance provides IP name resolution services to clients on the network. This device can resolve names into IPv4 addresses and names into IPv6 addresses. The device will also perform reverse lookups, resolving IPv4 addresses into names and IPv6 addresses into names. A DNS appliance can accept any type of query via IPv4 or IPv6 protocols. A DNS appliance supports DNSsec, permitting individual responses to be authenticated.

Performance: 10,000 to 15,000 queries per second

## ***SLIN 0003AW CATEGORY 3 APPLIANCES***

### **Tier 9 - DNS Appliance**

#### **Tier 9b (Large)**

A DNS appliance provides IP name resolution services to clients on the network. This device can resolve names into IPv4 addresses and names into IPv6 addresses. The device will also perform reverse lookups, resolving IPv4 addresses into names and IPv6 addresses into names. A DNS appliance can accept any type of query via IPv4 or IPv6 protocols. A DNS appliance supports DNSsec, permitting individual responses to be authenticated.

Performance: 75,000 to 100,000 queries per second

## ***SLIN 0003AX CATEGORY 3 APPLIANCES***

### **Tier 10 – Global Load Balancer**

#### **Tier 10a (Small)**

A global load balancer provides application delivery services to clients around the world. A GLB solution will direct users to an appropriate application site based upon several criteria. A GLB device determines client-to-server proximity by computing the round-trip delay between the client and the data center site. To provide the optimal user experience, the least-loaded, closest available sites to the client are selected to deliver application traffic. Generally, small devices are scaled down versions of the larger devices with less performance and lower cost.

Performance: 300,000 to 400,000 connections per second

## ***SLIN 0003AY CATEGORY 3 APPLIANCES***

### **Tier 10 – Global Load Balancer**

#### **Tier 10b (Medium)**

A global load balancer provides application delivery services to clients around the world. A GLB solution will direct users to an appropriate application site based upon several criteria. A GLB device determines client-to-server proximity by computing the round-trip delay between the client and the data center site. To provide the optimal user experience, the least-loaded, closest available sites to the client are selected to deliver application traffic.

A GLB device continually monitors data center sites to detect any changes in servers or services due to varying health and traffic conditions. Configurable site load thresholds allow organizations to align health-checking parameters with the server and service capabilities of each site. All of these features work in conjunction with existing DNS as well as DNS Security Extensions (DNSSEC) servers to minimize service disruption and maximize application uptime.

Medium GLB devices include some additional features such as redundant power supplies and a few line card slots for additional ports.

Performance: 1 million to 1.5 million connections per second

## ***SLIN 0003AZ CATEGORY 3 APPLIANCES***

### **Tier 10 – Global Load Balancer**

#### **Tier 10c (Large)**

A global load balancer provides application delivery services to clients around the world. A GLB solution will direct users to an appropriate application site based upon several criteria. A GLB device determines client-to-server proximity by computing the round-trip delay between the client and the data center site. To provide the optimal user experience, the least-loaded, closest available sites to the client are selected to deliver application traffic.

A GLB device continually monitors data center sites to detect any changes in servers or services due to varying health and traffic conditions. Configurable site load thresholds allow organizations to align health-checking parameters with the server and service capabilities of each site. All of these features work in conjunction with existing DNS as well as DNS Security Extensions (DNSSEC) servers to minimize service disruption and maximize application uptime.

Large GLB devices include additional features such as redundant power supplies, large number of line cards for additional ports, an ability to scale processor capacity within the chassis, and better performance.

Performance: 3 million to 4 million connections per second

## ***SLIN 0003BA CATEGORY 3 APPLIANCES***

### **Tier 11 – Matrix/Aggregation Devices**

This function describes the requirements needed in switching, aggregation and filtering appliances.

#### **Tier 11a (Small)**

Tier 9a matrix/aggregation devices pull data from multiple sources which is aggregated, filtered and then directed to data mining and forensic devices for further analysis. Features include redundancy within a single chassis, granularity of user access, 10 Gigabit Ethernet and 8 Gigabit Fiber Channels, independent control and data planes. The ability to remotely administer all devices via an intuitive interactive graphical user interface from any one device allows for ease in troubleshooting issues at remote locations and system administration capabilities. Devices at this tier typically have bandwidth speeds at or below 8 Gigabits with port capacity at or below 88 ports.

## ***SLIN 0003BB CATEGORY 3 APPLIANCES***

### **Tier 11 - Matrix/Aggregation Devices**

This function describes the requirements needed in switching, aggregation and filtering appliances.

#### **Tier 11b (Large)**

This level includes all of the functions listed under Tier 9a while supporting interface speeds and transfer rates at 10Gbps. This level also incorporates double the port capacity of 1 Gigabit interfaces while also adding equal port capacity for 10 Gigabit interfaces.

## ***SLIN 0003BC CATEGORY 3 APPLIANCES***

### **Tier 12 - Network Tap**

#### **Tier 12a (Small)**

Passive 10/100/1000BaseT taps establish permanent access ports without introducing a point of failure or disturbing other network connections. The tap either auto-negotiates communication or uses an external DIP switch to set fixed speed and duplexing parameters. Passive taps deliver full-duplex monitoring with zero impact on network traffic around the clock.

Network taps may tap into either UTP copper or fiber optic connections. Fiber optic taps may be regenerative. Regenerative taps minimize the amount of light pulled from the main line and amplify it going to the monitor ports. This results in many devices being able to monitor the same fiber optic line without losing signal integrity.

Monitored links: 1 or 2

## ***SLIN 0003BD CATEGORY 3 APPLIANCES***

### **Tier 12 - Network Tap**

#### **Tier 12b (Large)**

Passive 10/100/1000BaseT taps establish permanent access ports without introducing a point of failure or disturbing other network connections. The tap either auto-negotiates communication or uses an external DIP switch to set fixed speed and duplex parameters. Passive taps deliver full-duplex monitoring with zero impact on network traffic around the clock.

Network taps may tap into either UTP copper or fiber optic connections. Fiber optic taps may be regenerative. Regenerative taps minimize the amount of light pulled from the main line and amplify it going to the monitor ports. This results in many devices being able to monitor the same fiber optic line without losing signal integrity.

Additional features found on large taps include the ability to tap a copper link and send the packets out a fiber optic link, or tap a fiber optic link and send packets out a copper link. Redundant power supplies may also be found on regenerative taps.

Monitored links: 3 or more

## **VOICE SYSTEM HW AND VMWARE**

### ***SLIN 0003BE***

### ***SMALL 500 SEATS OR LESS***

Description: Dual HA pair to run Unified Communications clustered voice applications. UC applications are JITC certified on UCS systems. **Properly sized for 500 CUWL Std or 500 CUWL Pro users.** Includes required VMware Ent Plus software. Does not include application software licensing, user endpoints or gateways so must be ordered with those associated voice system elements.

**SLIN 0003BF****MEDIUM 500-1000 SEATS**

Description: Six clustered systems to run Unified Communications voice applications as an HA redundant system. UC applications are JITC certified on UCS systems. **Properly sized for 1000 CUWL Std or 1000 CUWL Pro users.** Includes required VMware Ent Plus software. Does not include application software licensing, user endpoints or gateways so must be ordered with those associated voice system elements.

**SLIN 0003BG****LARGE 1000 TO 10000 SEATS**

Description: Eight clustered systems to run Unified Communications voice applications as a highly available system. Includes associated compute fabric interconnects, blade chassis and top of rack switching. UC applications are JITC certified on UCS systems. **Properly sized for 10000 CUWL Std or 10000 CUWL Pro users.** Includes required VMware Ent Plus software. Does not include application software licensing, user endpoints or gateways so must be ordered with those associated voice system elements.

**UNIFIED CONTACT CENTER EXPRESS****SLIN 0003BH****SMALL (25 USERS)**

Description: Unified Contact Center Express meets the needs of midmarket and enterprise branch-office or departmental companies that need easy-to-deploy, easy-to-use, secure, virtual, highly available, and sophisticated customer interaction management. Unified Contact Center Express delivers powerful, agent-based service as well as fully integrated self-service applications results in reduced business costs and improved customer response by providing sophisticated and distributed automatic call distributor (ACD), interactive voice response (IVR), computer telephony integration (CTI), and agent and desktop services. **Sized for 25 users/agents.** Does not include servers, systems or handsets so must be ordered alongside those additional elements.

**SLIN 0003BJ CATEGORY 3 APPLIANCES****Tier 16 – Console Server**

A console server provides remote access to devices via those devices' serial (console) interfaces. This is accomplished by connecting the serial (non-routable) interface of a device to the console server. The console server is remotely accessible and acts as a remote gateway for accessing the local devices' serial interfaces. Dial-up and dial-back modem access may be required in some circumstances.

These types of devices may also be known as console access servers, console management servers, serial concentrators, or serial console servers.

**Tier 16a (Small)**

This tier would be for a micro datacenter that is not expected to outgrow a single console server of less than 48 serial interphases. SSH must be one of the remote access methods supported.

**SLIN 0003BK CATEGORY 3 APPLIANCES****Tier 16 – Console Server**

A console server provides remote access to devices via those devices serial (console) connections. This is accomplished by connecting the serial (non-routable) interface of a device to the console server. The console

server is remotely accessible via SSH and acts as a remote gateway for accessing the local devices' serial interfaces. Dial up and dial-back modem access may be required in some circumstances.

These types of devices may also be known as console access servers, console management servers, serial concentrators, or serial console servers.

**Tier 16b (Medium)**

This tier would be for a standard datacenter or one that can potentially grow to need a console server of 48 ports or more. If the requirement is for more serial connections to be remotely accessible than 48, one option is to deploy additional 48 port console servers as necessary to keep up with datacenter growth. SSH must be one of the remote access methods supported.

***SLIN 0003BL CATEGORY 3 APPLIANCES***

**Tier 3 – Intrusion Detection System**

Category 3; Tier 3 of this contract focuses on Intrusion Detection System and the features required in a datacenter. Intrusion Detection Systems are essential to a secure and confidential computing environment.

**Tier 3d (Virtualized)**

Tier 3d Intrusion Detection Systems virtualized IDS/IPS sensors for VMware or virtualized environments

***SLIN 0003BM CATEGORY 3 APPLIANCES***

**Tier 3 – Intrusion Detection System**

Category 3; Tier 3 of this contract focuses on Intrusion Detection System and the features required in a datacenter. Intrusion Detection Systems are essential to a secure and confidential computing environment.

**Tier 3e (Expansion for tier 3b and 3c)**

Tier 3e Intrusion Detection Systems expansion ports for medium and large IDS/IPS sensors

***SLIN 0003BN CATEGORY 3 APPLIANCES***

**Tier 3 – SSL Decryption Appliance**

Category 3; Tier 3 of this contract focuses on an Appliance which decrypts SSL-encrypted traffic

**Tier 3f (medium)**

Tier 3f is an Appliance which decrypts SSL-encrypted traffic at 1Gbps line rate inspection.

***SLIN 0003BT***

***MEDIUM (50 USERS)***

Description: Unified Contact Center Express meets the needs of midmarket and enterprise branch-office or departmental companies that need easy-to-deploy, easy-to-use, secure, virtual, highly available, and sophisticated customer interaction management. Unified Contact Center Express delivers powerful, agent-based service as well as fully integrated self-service applications results in reduced business costs and improved customer response by providing sophisticated and distributed automatic call distributor (ACD), interactive voice response (IVR), computer telephony integration (CTI), and agent and desktop services. **Sized for 50 users/agents.** Does not include servers, systems or handsets so must be ordered alongside those additional elements.

***SLIN 0003BU***

***LARGE (300 USERS)***

Description: Unified Contact Center Express meets the needs of midmarket and enterprise branch-office or departmental companies that need easy-to-deploy, easy-to-use, secure, virtual, highly available, and sophisticated customer interaction management. Unified Contact Center Express delivers powerful, agent-based service as well as fully integrated self-service applications results in reduced business costs and improved customer response by providing sophisticated and distributed automatic call distributor (ACD), interactive voice response (IVR), computer telephony integration (CTI), and agent and desktop services. **Sized for 300 users/agents.** Does not include servers, systems or handsets so must be ordered alongside those additional elements.

**UNIFIED WORKSPACE LICENSE (CUWL)**

**Standard 50 user License Pack**

***SLIN 0003BV***

Description: Unified Workspace Standard Edition. This edition includes all features in Standard Edition: Built on the Unified Communications Manager platform, this edition includes call control, voice messaging, unified clients, mobility, and presence with the enterprise scalability to support business as it grows. Each user is entitled to two device licenses, handset, softphone or both. Does not include servers, systems or handsets so must be ordered alongside those additional elements. Does not include servers, systems or handsets so must be ordered alongside those additional elements. **For SLIN 0003BE minimum quantity of 10 must be ordered, for SLIN 0003BF minimum quantity of 20 must be ordered, and for SLIN 0003BG minimum quantity of 200 must be ordered.**

**Professional 50 user License Pack**

***SLIN 0003BW***

Description: Unified Workspace Professional Edition: This edition includes all features in Standard Edition, plus Unified Mobile Communicator client, audio, video and web conferencing, and other advanced capabilities. Each user is entitled to ten device licenses, handset, softphone or both. Does not include servers, systems or handsets so must be ordered alongside those additional elements. **For SLIN 0003BE minimum quantity of 10 must be ordered, for SLIN 0003BF minimum quantity of 20 must be ordered and for SLIN 0003BG a minimum quantity of 200 must be ordered.**

***SLIN 0003BX            BASIC PHONE SINGLE UNIT    TIER***

Description: The Basic IP Phone, includes wideband audio, backlit color touchscreen display, and an integrated Gigabit Ethernet, direct access to six telephone lines (or combination of lines, speed dials, and direct access to telephony features), five interactive soft keys that guide you through call features and functions, and an intuitive four-way (plus Select key) navigation cluster. A hands-free speakerphone and handset designed for high-fidelity wideband audio are standard, as is a built-in headset connection. Does not include application software licensing, servers or gateways so must be ordered with those associated voice system elements.

***SLIN 0003BY            MID FEATURE PHONE SINGLE UNIT***

Description: The Mid-Feature IP Phone includes wideband audio, backlit color touchscreen display, and an integrated Gigabit Ethernet, direct access to eight telephone lines (or combination of lines, speed dials, and direct access to telephony features), five interactive soft keys that guide you through call features and functions, and an intuitive four-way (plus Select key) navigation cluster. A hands-free speakerphone and handset designed for high-fidelity wideband audio are standard, as is a built-in headset connection. Does not include application software licensing, servers or gateways so must be ordered with those associated voice system elements.

***SLIN 0003BZ            MID FEATURE PHONE WITH IP CAMERA***

Description: The Mid-Feature IP Phone with IP Camera includes advanced collaborative multimedia features that provide the use of voice, video applications. Highlights include Gigabit Ethernet, high-definition voice, high-resolution, fully-backlit, pixel-based color touchscreen display, desktop 802.11a/b/g Wi-Fi connectivity along with a new industrial design and user interface designed for simplicity and high usability. Includes the Unified Video Camera option. Does not include application software licensing, servers or gateways so must be ordered with those associated voice system elements.

***SLIN 0003CA            48 PORT POE SWITCH FOR VOIP***

Description: An enterprise-class stackable wiring closet switch that facilitates the deployment of secure converged applications while maximizing investment protection for evolving network and application requirements. Combining 10/100/1000 access ports, QoS, Power over Ethernet (PoE) and other advanced services configurations with 10 Gigabit Ethernet uplinks that enhance worker productivity by enabling applications such as IP telephony, wireless, and video. Does not include voice application software, user licensing, servers, handsets or gateways so must be ordered with those associated voice system elements.

**CISCO UNIVERSAL VOIP GATEWAY**

**SLIN 0003CB****VOIP GATEWAY**

Description: Single voice router/gateway offers embedded hardware encryption acceleration for voice and video, optional firewall, intrusion prevention, call processing, voicemail, and application services. In addition, the platforms support the industry's widest range of wired and wireless connectivity options sized for 500 users; six T1/E1 ports, equivalent SIP trunking via CUBE, secondary call processing via SRST and PVDM3 DSP resources sized for 500 users. Does not include voice application software, user licensing, servers, or handsets so must be ordered with those associated voice system elements. Must order at least two (2) voice gateways for fully redundant high available voice system topology as part of ORDER FOR SLIN 0003BE. Must order at least four (4) voice gateways for fully redundant high available voice system topology as part of ORDER FOR SLIN 0003BF. Must order at least twenty (20) voice gateways for fully redundant high available voice system topology as part of ORDER FOR SLIN 0003BG

**COMMUNICATIONS AS A SERVICE OFFERINGS**

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
0001	<b>Category One Switches CONUS</b>		
0001AA	Category One - Tier 1a-10/100/1000 RJ45	\$7.61	US
0001AB	Category One - Tier 1a-Fiber Multi Mode	\$19.14	US
0001AC	Category One - Tier 1a-Fiber Single Mode	\$19.74	US
0001AD	Category One - Tier 1b-10 GBps Copper	\$24.19	US
0001AE	Category One - Tier 1b- Fiber Short Haul	\$292.41	US
0001AF	Category One - Tier 1b- Fiber Long Haul	\$331.46	US
0001AG	Category One - Tier 2a-10/100/1000 RJ45	\$5.29	US
0001AH	Category One - Tier 2a-Fiber Short Haul	\$19.93	US
0001AJ	Category One - Tier 2a-Fiber Long Haul	\$27.66	US
0001AK	Category One - Tier 2b-10 GBps Copper	\$34.90	US
0001AL	Category One - Tier 2b- Fiber Short Haul	\$59.16	US
0001AM	Category One - Tier 2b- Fiber Long Haul	\$59.16	US
0001AN	Category One - Tier 3a-10/100/1000 RJ45	\$7.29	US
0001AP	Category One - Tier 3a- Fiber Short Haul	\$16.32	US
0001AQ	Category One - Tier 3a- Fiber Long Haul	\$33.50	US
0001AR	Category One - Tier 3b-10 GBps Copper	\$62.03	US
0001AS	Category One - Tier 3b- Fiber Short Haul	\$25.42	US
0001AT	Category One - Tier 3b- Fiber Long Haul	\$120.35	US
	<b>Category One Tier 3 Switches - Service Modules - CONUS</b>		
0001BA	Application Control Engine (ACE) Module	\$1,231.82	US
0001BB	Content Switching Module	\$1,387.98	US
0001BC	Content Switching Module with Secure Sockets Layer (SSL)	\$1,450.45	US
0001BD	Firewall Services Module	\$1,079.37	US
0001BE	Intrusion Detection System (IDS-2) Module	\$1,304.88	US
0001BF	IPsec VPN Services Port Adapter (VSPA)	\$1,167.50	US
0001BG	Network Analysis Module (NAM -1/NAM -2)	\$752.03	US
0001BH	Enhanced FlexWAN Module	\$199.70	US
0001BJ	WAN Module - Shared Port Adapter Interface Processor(SIP) Module	\$168.46	US
	<b>Category Two Routers CONUS</b>		
0002AA	Category Two - Tier 1a-10/100/1000 RJ45	\$34.04	US
0002AB	Category Two - Tier 1a-Fiber LX	\$18.90	US
0002AC	Category Two - Tier 1a-Fiber BX-D	\$19.26	US
0002AD	Category Two - Tier 1b-10 GBps Copper	\$102.24	US
0002AE	Category Two - Tier 1b- Fiber Short Haul	\$106.19	US
0002AF	Category Two - Tier 1b- Fiber Long Haul	\$303.49	US
0002AG	Category Two - Tier 2a-10/100/1000 RJ45	\$28.07	US
0002AH	Category Two - Tier 2a-Fiber LX	\$51.57	US
0002AJ	Category Two - Tier 2a-Fiber BX-D	\$56.41	US
0002AK	Category Two - Tier 2b-10 GBps Copper	\$303.49	US
0002AL	Category Two - Tier 2b- Fiber Short Haul	\$235.86	US
0002AM	Category Two - Tier 2b- Fiber Long Haul	\$267.17	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
0002AN	Category Two - Tier 3a-10/100/1000 RJ45	\$15.13	US
0002AP	Category Two - Tier 3a-Fiber LX	\$33.71	US
0002AQ	Category Two - Tier 3a-Fiber BX-D	\$42.04	US
0002AR	Category Two - Tier 3b-10 Gbps Copper	\$160.75	US
0002AS	Category Two - Tier 3b-Fiber Short Haul	\$213.85	US
0002AT	Category Two - Tier 3b- Fiber Long Haul	\$254.72	US
0002AV	Category Two - Tier 1a Fiber Short Haul	\$129.77	US
0002AW	Category Two - Tier 2a-Fiber Short Haul	\$129.77	US
0002AX	Category Two - Tier 3a-Fiber Long Haul	\$115.76	US
0002AY	Category Two - Tier 1a Fiber Long Haul	\$115.76	US
0002AZ	Category Two - Tier 2a-Fiber Long Haul	\$115.76	US
0002CA	Category Two - Tier 3a-Fiber Short Haul	\$129.77	US
	<b>Category Two Routers - Service Modules &amp; non Ethernet Ports - CONUS</b>		
0002BD	SONET Interface - small	\$663.78	US
0002BE	SONET Interface - medium	\$779.94	US
0002BF	SONET Interface - Large	\$2,037.80	US
0002BG	SONET Interface - Extra Large	\$3,900.91	US
	<b>Category Two Tier 3 Routers - Service Modules - CONUS</b>		
0002BA	Session Border Controller	\$1,500.44	US
0002BB	IPSec VPN Shared Port Adapter with VPN SPA	\$1,167.50	US
0002BC	Wireless Services Module	\$1,210.06	US
<b>0004</b>	<b>Category One Switches OCONUS</b>		
0004AA	Category One - Tier 1a-10/100/1000 RJ45	\$8.14	US
0004AB	Category One - Tier 1a-Fiber Multi Mode	\$20.48	US
0004AC	Category One - Tier 1a-Fiber Single Mode	\$21.12	US
0004AD	Category One - Tier 1b-10 GBps Copper	\$25.88	US
0004AE	Category One - Tier 1b- Fiber Short Haul	\$312.88	US
0004AF	Category One - Tier 1b- Fiber Long Haul	\$354.66	US
0004AG	Category One - Tier 2a-10/100/1000 RJ45	\$5.66	US
0004AH	Category One - Tier 2a-Fiber Short Haul	\$21.32	US
0004AJ	Category One - Tier 2a-Fiber Long Haul	\$29.59	US
0004AK	Category One - Tier 2b-10 GBps Copper	\$37.34	US
0004AL	Category One - Tier 2b- Fiber Short Haul	\$63.31	US
0004AM	Category One - Tier 2b- Fiber Long Haul	\$63.31	US
0004AN	Category One - Tier 3a-10/100/1000 RJ45	\$7.81	US
0004AP	Category One - Tier 3a- Fiber Short Haul	\$17.46	US
0004AQ	Category One - Tier 3a- Fiber Long Haul	\$35.85	US
0004AR	Category One - Tier 3b-10 GBps Copper	\$66.37	US
0004AS	Category One - Tier 3b- Fiber Short Haul	\$27.20	US
0004AT	Category One - Tier 3b- Fiber Long Haul	\$128.78	US
	<b>Category One Tier 3 Switches - Service Modules - OCONUS</b>		
0004BA	Application Control Engine (ACE) Module	\$1,318.05	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
0004BB	Content Switching Module	\$1,485.14	US
0004BC	Content Switching Module with Secure Sockets Layer (SSL)	\$1,551.98	US
0004BD	Firewall Services Module	\$1,154.92	US
0004BE	Intrusion Detection System (IDS-2) Module	\$1,396.22	US
0004BF	IPsec VPN Services Port Adapter (VSPA)	\$1,249.22	US
0004BG	Network Analysis Module (NAM -1/NAM -2)	\$804.67	US
0004BH	Enhanced FlexWAN Module	\$213.68	US
0004BJ	WAN Module - Shared Port Adapter Interface Processor(SIP) Module	\$180.26	US
<b>0005</b>	<b>Category Two Routers OCONUS</b>		
0005AA	Category Two - Tier 1a-10/100/1000 RJ45	\$36.42	US
0005AB	Category Two - Tier 1a-Fiber LX	\$20.22	US
0005AC	Category Two - Tier 1a-Fiber BX-D	\$20.61	US
0005AD	Category Two - Tier 1b-10 GBps Copper	\$109.39	US
0005AE	Category Two - Tier 1b- Fiber Short Haul	\$113.62	US
0005AF	Category Two - Tier 1b- Fiber Long Haul	\$324.73	US
0005AG	Category Two - Tier 2a-10/100/1000 RJ45	\$30.04	US
0005AH	Category Two - Tier 2a-Fiber LX	\$55.18	US
0005AJ	Category Two - Tier 2a-Fiber BX-D	\$60.36	US
0005AK	Category Two - Tier 2b-10 Gbps Copper	\$324.73	US
0005AL	Category Two - Tier 2b- Fiber Short Haul	\$252.37	US
0005AM	Category Two - Tier 2b- Fiber Long Haul	\$285.88	US
0005AN	Category Two - Tier 3a-10/100/1000 RJ45	\$16.19	US
0005AP	Category Two - Tier 3a-Fiber LX	\$36.07	US
0005AQ	Category Two - Tier 3a-Fiber BX-D	\$44.98	US
0005AR	Category Two - Tier 3b-10 Gbps Copper	\$172.00	US
0005AS	Category Two - Tier 3b- Fiber Short Haul	\$228.82	US
0005AT	Category Two - Tier 3b- Fiber Long Haul	\$272.55	US
0005AV	Category Two - Tier 1a Fiber Short Haul	\$138.86	US
0005AW	Category Two - Tier 2a-Fiber Short Haul	\$138.86	US
0005AX	Category Two - Tier 3a-Fiber Long Haul	\$123.86	US
0005AY	Category Two - Tier 1a Fiber Long Haul	\$123.86	US
0005AZ	Category Two - Tier 2a-Fiber Long Haul	\$123.86	US
0005CA	Category Two - Tier 3a-Fiber Short Haul	\$138.86	US
	<b>Category Two Routers - Service Modules &amp; non Ethernet Ports - OCONUS</b>		
0005BD	SONET Interface - small	\$710.24	US
0005BE	SONET Interface - medium	\$834.54	US
0005BF	SONET Interface - Large	\$2,180.45	US
0005BG	SONET Interface - Extra Large	\$4,173.97	US
	<b>Category Two Tier 3 Routers - Service Modules - OCONUS</b>		
0005BA	Session Border Controller	\$1,605.47	US
0005BB	IPSec VPN Shared Port Adapter with VPN SPA	\$1,249.22	US
0005BC	Wireless Services Module	\$1,294.76	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP1.1	Juniper,NS-ISG-2000, 1g only, 16 port	\$1,761.13	US
CSP1.2	Cisco ASA5585, 1g only	\$2,563.74	US
CSP1.3	Juniper NS-5400, 1g only, 8 port	\$3,633.88	US
CSP1.4	Cisco ASR1004	\$3,633.88	US
CSP1.5	Palo Alto PA5050	\$4,324.87	US
CSP1.6	Juniper NS-5400, 8 1g, 4 10g included	\$4,748.31	US
CSP1.7	Juniper,SRX 1400, 1g only 12 ports (6 1Gb/6 1Gb SFP)	\$1,493.59	US
CSP1.8	Juniper,SRX 650, 1g only	\$772.76	US
CSP 1.9	Palo Alto PA5020	\$3,522.26	US
CSP 1.10	Juniper,NS-ISG-2000, 1g only, 8 port	\$1,545.51	US
CSP 1.11	Juniper NS-5400, 1g only, 16 port	\$5,283.39	US
CSP 01.12	Palo Alto PA5020 w/redundant AC power supplies,single 240GB SSD drive, 12 1g copper ports onboard, can add connections (CSP 01.xx-xx), up to 8 1g short/long, no 10g option	\$2,502.23	US
CSP 01.13	Palo Alto PA5050 w/redundant AC power supplies,single 240GB SSD drive, 12 1g copper ports onboard, can add connections (CSP 01.xx-xx), up to 8 1g short/long, no 10g option	\$4,136.85	US
CSP 01.14	Palo Alto PA5060 w/redundant AC power supplies, 4tb raid storage, 12 1g copper onboard, can add connections (CSP 01.xx-xx), up 8 1g short/long, and 4 10g short/long	\$8,766.50	US
CSP 01.16	Palo Alto 1g short connection, unit of 4 (four)	\$651.98	US
CSP 01.17	Palo Alto 1g long connection, unit of 4 (four)	\$651.98	US
CSP 01.18	Palo Alto 10g short connection, unit of 4 (four)	\$183.96	US
CSP 01.19	Palo Alto 10g long connection, unit of 4 (four)	\$311.21	US
CSP2.1	Cisco Fabric Version 2 Nexus 7010 and 7009	\$2,855.18	US
CSP2.2	Brocade BR-VDX6720	\$3,654.82	US
CSP 2.3	Cisco Fabric Version 2 Nexus 5596 and 5548	\$399.40	US
2.6	High Feature Switch, High Volume ACL Feature, Cisco 7009 High Volume ACL Feature (1) per N7K-7009 Chassis, includes 8 10g MM uplinks, requires corresponding ports ordered on base chassis	\$1,762.88	US
CSP3.1	SourceFire 8260	\$11,688.66	US
CSP 4.1	Sourcefire 8250	\$8,766.50	US
CSP 4.2	Sourcefire 8250	\$13,332.15	US
CSP 4.3	Sourcefire 8250	\$10,409.98	US
CSP 4.4	Sourcefire 8250	\$1,234.54	US
CSP 4.5	Sourcefire 8250, 4 Port Copper 1Gbps, 8 NM ports/ 2 cards	\$7,487.82	US
CSP 04.06	HW SF 3D7110, IPS License, AC Power, 1U, 8 Port Copper	\$1,473.72	US
CSP 04.07	HW SF 3D7120, IPS License, AC Power, 1U, 8 Port Copper	\$1,883.89	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 04.08	HW SF 3D8120 Chassis, IPS Power, 1U, 8 Port Copper	\$3,068.21	US
CSP 04.10	Sourcefire 3D8120 Chassis, IPS License, no netmod interfaces included, (1g copper, 1g short, 10 g short, max 3 packages per system)	\$2,915.71	US
CSP 04.11	Sourcefire 3D8130, IPS License, no netmod interfaces included, (1g copper, 1g short, 10 g short, max 3 packages per system)	\$3,863.78	US
CSP 04.12	Sourcefire 1g copper (4) interface package	\$320.49	US
CSP 04.13	Sourcefire 1g MM/short (4) interface package	\$682.67	US
CSP 04.14	Sourcefire 10g MM/short (2) interface package	\$1,212.79	US
CSP 5.1	Cisco Unified IP Phone 7965G	\$33.64	US
CSP 5.2	Cisco Unified IP Phone 7965G	\$33.64	US
CSP 6.1	Cisco Unified IP Phone 7975G	\$36.13	US
CSP 6.2	Cisco Unified IP Phone 7975G	\$36.13	US
CSP 7.1	Cisco Unified IP Phone 9971	\$46.02	US
CSP 7.2	Cisco Unified IP Phone 9971	\$46.02	US
CSP 8.4	BIG-IP 6900, FIPS with Base APM	\$3,942.57	US
CSP 8.5	BIG-IP 8900, FIPS with 500 APM internal	\$5,118.83	US
CSP 8.6	BIG-IP 11000, FIPS with 500 APM internal	\$6,462.32	US
CSP 8.7.a	APM for BIG-IP 6900, ENTERPRISE license up to 25,000 concurrent users	\$3,162.89	US
CSP 8.8	APM for BIG-IP 8900, ENTERPRISE license up to 40,000 concurrent users	\$6,325.78	US
CSP 8.9	APM for BIG-IP 11000, ENTERPRISE license up to 60,000 concurrent users	\$6,977.76	US
CSP 8.10	APM for BIG-IP 6900, 500 concurrent user license	\$651.98	US
CSP 8.11	APM for BIG-IP 8900, 500 concurrent user license	\$651.98	US
CSP 8.12	APM for BIG-IP 11000, 500 concurrent user license	\$1,303.96	US
CSP 8.13	F5-Global Traffic Manager 1600	\$1,624.56	US
CSP 08.17	BIG-IP 8900, FIPS with 500 APM internal, 2 10G Short uplink option	\$5,241.52	US
CSP 08.19	BIG-IP Virtual Edition: LTM License (3 Gbps), (NOTE: No FIPS Card, hardware Based SSL Offload/Acceleration or hw Caching/Compression), host platform not included, support for virtual product only	\$1,521.49	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 08.20	BIG-IP Virtual Edition: LTM License Virtual (1Gbps), (NOTE: No FIPS Card, hardware Based SSL Offload/Acceleration or hw Caching/Compression), host platform not included, support for virtual product only	\$1,170.35	US
CSP 08.21	NON PRODUCTION USE ONLY, BIG-IP Virtual Edition: LTM License Virtual (200 Mbps), (NOTE: No FIPS Card, hardware Based SSL Offload/Acceleration or hw Caching/Compression), host platform not included, support for virtual product only	\$546.14	US
CSP 9.1	HP Racked ePDU, Auto Transfer, input C20, output (8) C13, (1) C19	\$19.14	US
CSP 9.2	Half Height 17.3 kVA S348 Monitored PDU-single input, Cisco Nexus product line	\$76.57	US
CSP 10.2	Virtual Stingray Traffic Manager	\$1,895.32	US
CSP 10.3	Thales nShield connect 6000 - 1 License	\$2,166.09	US
CSP 10.4	Thales nShield connect 6000 , 3 license	\$2,707.61	US
CSP 10.5	Thales nShield license for use on connect 6000 , 1 license	\$271.57	US
CSP 11.1	Set of (4) Juniper OC12/STM4 pluggable transceiver (SFP) - short range	\$42.04	US
CSP 11.2	Set of (4) Juniper OC3/STM4 Pluggable transceiver (SFP) - Long Range	\$84.07	US
CSP 12.2	WS-C3750X-48T-S w 2 10g shorthaul uplinks	\$538.58	US
CSP 12.08	Set of (2) 4GB DUAL PORT FC HBA VOIP modules	\$136.53	US
CSP 13.1	Cisco 1004,40g ESP, full capacity 4 ports MM 10Gb, 20 ports Copper 1Gb	\$7,376.25	US
CSP 13.2	Cisco 1004, 20g ESP, medium capacity 2 ports MM 10Gb, 10 ports Copper 1Gb	\$6,726.54	US
CSP 13.3	Cisco 1006, 100g ESP, full capacity 4 ports MM 10Gb, 20 ports Copper 1Gb	\$9,745.82	US
CSP 13.4	Cisco 1006, 40g ESP, medium capacity 2 ports MM 10Gb, 10 ports Copper 1Gb	\$8,828.57	US
CSP 13.5	Cisco 1006, 100g ESP, 10 ports Copper 1Gb, 2 short/2 long 1g	\$8,828.57	US
CSP 13.6	Cisco 1004, 40g ESP, 10 ports Copper 1Gb, 2 short/2 long 1g	\$5,541.75	US
CSP 13.7	Cisco 1006, 40g ESP, full capacity 4 ports MM 10Gb, 10 ports Copper 1Gb	\$8,981.47	US
CSP 13.8	Cisco 1006, 40g ESP, 20 ports Copper 1Gb, 3 short/1 long 10g	\$9,096.11	US
CSP 13.9	1006 40 chassis, 20 1g, 4 10g option Needs options 13.13 to 13.17	\$8,561.04	US
CSP 13.10.	1006 40 chassis, 10 1g, 4 10g option Needs options 13.13 to 13.17	\$7,643.79	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 13.11	1006 40 chassis, 20 1g, 2 10g option Needs options 13.13 to 13.17	\$7,376.25	US
CSP 13.12	1006 40 chassis, 10 1g, 2 10g option Needs options 13.13 to 13.17	\$6,726.54	US
CSP 13.13	1006 1g 10pack copper Associated with 13.9 to 13.12, self install after initial order	\$112.28	US
CSP 13.14	1006 1g 5pack short Associated with 13.9 to 13.12, self install after initial order	\$67.43	US
CSP 13.15	1006 1g 5pack long Associated with 13.9 to 13.12, self install after initial order	\$112.28	US
CSP 13.16	1006 10g 1pack short. Associated with 13.9 to 13.12, self install after initial order	\$56.14	US
CSP 13.17	1006 10g 1pack long Associated with 13.9 to 13.12, self install after initial order	\$84.21	US
CSP 13.18	1006 1g 1 pack short Associated with 13.9 to 13.12, self install after initial order	\$28.07	US
CSP 13.20	1006 40 chassis, 10 1g copper, 1 1g short	\$6,459.00	US
CSP 13.21	1006 40 chassis, 20 1g copper, 1 1g short	\$6,994.08	US
CSP 13.22	1006 40 chassis, 10 1g copper	\$6,333.53	US
CSP 13.23	1006 40 chassis, 20 1g copper	\$6,344.36	US
CSP 13.24	1006 40 chassis, 10 1g, 2 10g short, 1 1g long option	\$6,994.08	US
CSP 13.25	1006 40 chassis, 20 1g, 2 10g short, 1 1g long option	\$7,643.79	US
CSP 13.26	Cisco 1006, 40g ESP, full capacity 4 ports MM 10Gb, 20 ports Copper 1Gb	\$7,791.39	US
CSP 13.27	Cisco 1004,10g ESP, 2 ports t1/e1, 10 ports Copper 1Gb	\$3,690.89	US
CSP 13.28	Cisco 1006,10g ESP, 10 ports Short 1Gb	\$5,229.34	US
CSP 13.36	Per Unit	\$2,642.64	US
CSP 13.37	Choose an ESP to add to ASR1004/1006	\$690.68	US
CSP 13.39	Choose an ESP to add to ASR1004/1006	\$1,005.13	US
CSP 13.41	ASR 1006: order max 24 for total 120 connections, ASR 1004: order max 16 for total 80 connections, less any SIP positions used for 10g connections	\$339.57	US
CSP 13.44	ASR 1006: order max 6 for total 12 interfaces, ASR 1004: order max 4 for total 8 interfaces, less any SIP positions used for 1g interfaces	\$1,130.42	US
CSP 13.46	Embedded Services Processor, 40g, pair for use in 1006	\$1,594.39	US
CSP 13.47	Embedded Services Processor, 100g, pair for use in 1006	\$2,261.94	US
CSP 15.1	Juniper MX10	\$2,028.66	US
CSP 15.2	HPN6602	\$661.00	US
CSP 15.3	ASR1002	\$2,108.92	US
CSP 15.4	C3925E	\$928.53	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 16.1	Profiler Express ( up to 75K FPM max) & SAN attached storage connector	\$7,378.01	US
CSP 16.2	2U 8TB, Shark Appliance Model, 4 1gb copper	\$2,908.15	US
CSP 16.3	Pilot SW (3 user licenses)	\$538.58	US
CSP 16.4	can upgrade to (2) 10gb short or long capture ports	\$1,077.16	US
CSP 16.5	Quote item #1: Standard 12TB, up to 200K FPM, w/Analytics Licensing & SAN attached storage connector	\$7,378.01	US
CSP 16.6	Cascade Gateway for 200K FPM	\$2,154.32	US
CSP 16.7	Cascade Sensor, 4 1gb copper	\$2,154.32	US
CSP 16.8	2U 16TB, Shark Appliance Model, 4 1gb copper	\$3,716.02	US
CSP 16.9	Pilot SW 5 user licenses	\$807.87	US
CSP 16.10	Increasing FPM up to 500K FPM	\$3,177.44	US
CSP 16.11	Increasing FPM up to 500K FPM	\$1,077.16	US
CSP 16.12	can upgrade to (2) 10gb short or long monitoring ports	\$538.58	US
CSP 16.13	can upgrade to (2) 10gb short or long capture ports	\$538.58	US
CSP 16.14	Quote item #2: Enterprise, 24TB, 800K FPM, w/Analytics Licensing & SAN attached storage connector	\$15,025.30	US
CSP 16.15	Cascade Gateway for 800K FPM	\$4,092.94	US
CSP 16.16	Cascade Sensor, 4 1gb copper	\$2,154.32	US
CSP 16.17	3U 32TB, Shark Appliance Model, 4 1gb copper	\$6,085.59	US
CSP 16.18	Pilot SW 10 user licenses	\$1,723.37	US
CSP 16.19	Cascade Enterprise Profiler Expansion Module-ADDS 24TB Disk, 400K FPM, max 1.8M FPM	\$7,378.01	US
CSP 16.20	Increasing FPM up to 1.4 million FPM	\$1,077.16	US
CSP 16.21	can upgrade to (2) 10gb short or long monitoring ports	\$538.58	US
CSP 16.22	can upgrade to (2) 10gb short or long capture ports	\$538.58	US
CSP 17.1	APCON ACI-3144-XE-AC-R chassis with (2) 36 port ACI-3030-E36-6-1 blades	\$4,450.76	US
CSP 17.2	SOURCEFIRE 3D8120 with 2 NM-SR2	\$4,930.46	US
CSP 17.3	SFP lab set of 50 assorted	\$538.58	US
CSP 17.4	BROCADE SX-800 (1) 24-port line cards, (2) 8 PRT 10GE SFPP cards	\$1,167.96	US
CSP 17.5	Juniper SRX 1400, 3 1g SX and 3 10GB SR ports	\$1,887.05	US
CSP 17.6	JUNIPER MX240	\$8,901.52	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 17.7	CISCO Nexus 5548 Full fabric, 18 1Gb copper, 30 10g short ports	\$1,950.22	US
CSP 17.8	CISCO Nexus 7009 Full Fabric, 2 48 10Gb short line cards, FCOE uplift, Sup2e Pair	\$8,671.73	US
CSP 17.10	Bluecat Adonis 1200	\$1,074.70	US
CSP 17.11	Non Production Elements Package Suite all items above as package order	\$59,683.13	US
CSP 17.12	SFP lab set of 50 assorted, option #2	\$466.82	US
CSP 17.13	Pre-Production F5-ADD-BIG-PSM	\$447.75	US
CSP 17.14	Pre-Production F5-ADD-BIG-ROUTING 16	\$155.61	US
CSP 17.15	Pre-Production F5 Application Security Manager Bundle (ASM, ACA, Max SSL)	\$1,457.85	US
CSP 17.16	Pre-Production Juniper IPS/deep packet inspection license, requires existing ISG2000	\$538.58	US
CSP 17.17	Pre-Production Palo Alto 5060 with x4 10g	\$7,245.25	US
CSP 17.18	Deep Packet 4x10g Appliance, Bivio B7562	\$5,719.54	US
CSP 17.19	Monitoring TAP, VSSMonitoring 2x2 All-Optical TAP	\$7,417.52	US
CSP 17.20	Anomolous Network Based Detection, ARBOR PI5500-25 w 5 flows	\$10,826.36	US
CSP 17.21	Database Firewall, Imperva, X6500 Database Firewall	\$10,242.52	US
CSP 17.22	Database Firewall, Imperva, Passive HA system, (1) X6500 Database Firewall	\$8,293.50	US
CSP 17.23	Database Firewall, User Rights Management License for 500 Dbis	\$1,766.43	US
CSP 17.24	Database Firewall, User Rights Management License for 100 Dbis	\$466.82	US
CSP 17.25	Database Firewall system Management Server w passive HA, Imperva M150	\$3,142.33	US
CSP 17.26	Non Production JIE 7004, 70 10g mm, 26 1g copper	\$7,209.89	US
CSP 17.27	Non Production JIE 5548, 40 10g mm, 8 1g copper	\$3,123.72	US
CSP 17.28	Juniper SRX5600 w Next Gen IOC and SPC	\$8,498.57	US
CSP 17.30	Juniper SRX3400 w IDP Signature License and Next Gen IOC and SPC	\$4,739.14	US
CSP 17.31	Juniper SRX3600 w IDP Signature License and Next Gen IOC and SPC	\$7,941.52	US
CSP 17.35	Juniper SRX3400w Next Gen IOC and SPC	\$4,842.08	US
CSP 17.36	Juniper SRX3600 w Next Gen IOC and SPC	\$6,325.78	US
CSP 17.37	Juniper srx3xxx IDP Signature Upgrade Module (add to CSP 17.35 or 17.36)	\$778.04	US
CSP 17.38	Juniper srx5xxx IDP Signature Upgrade Module (add to CSP 17.28 or 17.29)	\$1,513.10	US
CSP 17.39	order up to (3) (total 6 interfaces) with CSP 17.30,31,35,or 36	\$593.56	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 17.40	order up to (3) (total 6 interfaces) with CSP 17.30,31,35,or 36	\$541.52	US
CSP 17.41	order up to (3) (total 6 interfaces) with CSP 17.28, 29)	\$1,008.91	US
CSP 17.42	order up to (3) (total 6 interfaces) with CSP 17.28, 29)	\$1,005.13	US
CSP 17.46	Juniper SRX5400 w Next Gen IOC and SPC, interface modules required, first order must be minimum of qty 4, subsequent optional	\$5,541.75	US
CSP 17.47	Juniper SRX5400 w Next Gen IOC and SPC, includes 6 10g MM	\$7,136.72	US
CSP 17.50	Juniper SRX5400 (2) 10g MM interface module, JIE eligible, order up to (3) (total 6 interfaces) with CSP 17.46)	\$551.88	US
CSP 18.1	CISCO ASA5540 with ATS	\$688.28	US
CSP 18.2	CISCO ASA5540 w/ 5 Security Contexts Licenses, with dual power Transfer switch service	\$760.75	US
CSP 18.3	CISCO ASA5550 with dual power Transfer switch service	\$735.29	US
CSP 18.4	CISCO ASA5550 w/ 5 Security Contexts Licenses, with dual power Transfer switch service	\$805.41	US
CSP 18.05	Juniper SA6500 FIPS w 250 concurrent users	\$1,911.64	US
CSP 18.06	Juniper SA4500 FIPS w 250 concurrent users	\$1,644.10	US
CSP 18.07	Juniper SA6500 FIPS w 20000 concurrent users	\$10,028.05	US
CSP 18.08	CISCO ASA5550 with dual power Transfer switch service	\$760.75	US
CSP 18.16	CISCO ASA5525X advanced series unit w/ no Security Contexts Licenses (add csp 18.11 thru 18.13 ) w dual power ATS switch	\$682.67	US
CSP 18.09	CISCO ASA5545X advanced series unit w/ no Security Contexts Licenses (add csp 18.11 thru 18.14 )	\$928.36	US
CSP 18.10	CISCO ASA5555X advanced series unit w/ no Security Contexts Licenses (add csp 18.11 thru 18.15 )	\$1,321.32	US
CSP 18.11	SET of (2) ASA55x5X series feature set of 5 Security Contexts Licenses (order w csp CSP 18.16, 18.09 or 18.10)	\$183.96	US
CSP 18.12	ASA55x5X series feature set of 10 Security Contexts Licenses (order w csp 18.16, 18.09 or 18.10)	\$155.61	US
CSP 18.13	ASA55x5X series feature set of 20 Security Contexts Licenses (order w csp 18.16, 18.09 or 18.10)	\$267.54	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 18.14	ASA55x5X series feature set of 50 Security Contexts Licenses (order w csp 18.09 or 18.10)	\$490.20	US
CSP 18.15	ASA55x5X series feature set of 100 Security Contexts Licenses (order w csp 18.10)	\$872.37	US
CSP 18.17	ASA5585-S20P20XK9, IPS, w 4 10g MM interfaces	\$5,481.16	US
CSP 18.18	ASA5585-S40P40-K9, IPS, w 6 10g MM interfaces	\$9,078.91	US
CSP 18.19	ASA5585-S60P60-K9, IPS, w 6 10g MM interfaces	\$14,157.21	US
CSP 19.1	Netscout Infinistream 2916	\$1,077.16	US
CSP 19.2	Netscout Infinistream 2910	\$1,723.37	US
CSP 19.3	Netscout Infinistream 6910	\$3,716.02	US
CSP 19.4	Netscout Infinistream 6980	\$4,900.81	US
CSP 19.5	Netscout Infinistream 6995	\$6,731.80	US
CSP 19.06	Netscout Infinistream 7990/ZS	\$7,108.72	US
CSP 19.7	nGenius Performance Manager, up to 50 Type 1 interfaces and 10,000 Type 2 interfaces (ENT, INC and STB)	\$3,177.44	US
CSP 19.8	nGenius Performance Manager, additional license packs for 50 Type 1 interfaces and 10,000 Type 2 interfaces (ENT, INC and STB)	\$2,638.86	US
CSP 19.9	backup/redundant system nGenius Performance Manager, up to 50 Type 1 interfaces and 10,000 Type 2 interfaces (ENT, INC and STB)	\$2,638.86	US
CSP 19.10	Netscout Infinistream system:7900-ESU-ZS, incl 4 SAS cables	\$1,578.25	US
CSP 19.11	Netscout Infinistream system:4 Pack Connectivity for Large Plus System (10 Gigabit SR, MM XFP, 850nm, LC)	\$541.52	US
CSP 19.12	Netscout Infinistream system:9502-ENT, nGenius Service Delivery Manager	\$2,637.11	US
CSP 19.13	Netscout Infinistream system:5508L-ENT-EC, nGenius Performance Manager Server (Linux), Enhanced Capacity	\$2,763.03	US
CSP 19.14	Netscout Infinistream system:APCON intellaflew with IntellaFlex 36 Bundle	\$6,954.76	US
CSP 20.1	N2K-C2248TP	\$365.14	US
CSP 20.2	WS-C4948E-S	\$590.79	US
CSP 20.3	Nexus 7004 Full Capacity unit 48 1g copper, 48 10g short	\$5,919.53	US
CSP 20.4	Nexus 7004 Full Capacity unit , 96 max, no SFPs, requires sfp pack	\$4,730.34	US
CSP 21.1	Forum Systems Sentry 4564-B	\$3,695.46	US
CSP 21.2	Brocade ServerIron ADX 4000	\$3,895.15	US
CSP 22.1	SSG-320, Juniper	\$245.10	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 23.1	Cisco 4506-E	\$1,231.82	US
CSP 24.1	Cisco 2960	\$183.96	US
CSP 25.1	APCON ACI 3072 72 port, 36 1g copper	\$6,018.85	US
CSP 25.2	APCON ACI 3144 72 port, 36 1g copper, 36 10g MM/short	\$9,370.42	US
CSP 26.1	Steelhead 5050-H	\$2,740.44	US
CSP 26.2	Steelhead 7050-L	\$9,480.26	US
CSP 26.03	Steelhead CXA 1555L	\$1,643.49	US
CSP 26.04	Steelhead CXA 1555M	\$1,888.58	US
CSP 26.05	Steelhead CXA 1555H	\$2,125.80	US
CSP 26.06	Steelhead CXA upgrade 1555L to M	\$367.92	US
CSP 26.07	Steelhead CXA upgrade 1555L to H	\$551.88	US
CSP 26.08	Steelhead CXA upgrade 1555M to H	\$245.10	US
CSP 26.09	Steelhead CXA 5055M	\$3,799.46	US
CSP 26.10	Steelhead CXA 5055H	\$5,391.12	US
CSP 26.11	Steelhead CXA upgrade 5055M to H	\$1,674.98	US
CSP 26.12	Steelhead CXA 7055L	\$8,163.79	US
CSP 26.13	Steelhead CXA 7055M	\$10,068.92	US
CSP 26.14	Steelhead CXA 7055H	\$12,126.57	US
CSP 27.1	Bluecat Adonis 1200 with dual power Transfer switch service	\$1,077.16	US
CSP 27.2	Cisco Secure Access Control Servers 1121 with dual power Transfer switch service	\$271.57	US
CSP 28.1	F5 Enterprise Manager, F5-EM-4000-R 28 device	\$1,166.22	US
CSP 28.2	Enterprise Manager 20 Device License add-on package (up to total of 148 on appliance CSP 28.1)	\$393.46	US
CSP 28.3	F5 Enterprise Manager, F5-EM-4000-R 150 device	\$2,506.11	US
CSP 29.1	240 chassis	\$3,349.96	US
CSP 29.2	240 line card 1gb 20 maximum ports	\$245.10	US
CSP 29.3	240 line card 10gb 16 maximum ports	\$2,614.67	US
CSP 29.6	240 line card 1gb w/4 port copper package	\$155.61	US
CSP 29.7	240 1gb 8 port package short	\$136.53	US
CSP 29.8	240 1gb 8 port package long	\$136.53	US
CSP 29.9	240 1gb 8 port package copper	\$136.53	US
CSP 29.10	240 line card 10gb w/4 port short package	\$2,506.11	US
CSP 29.11	240 10gb 4 port package short	\$136.53	US
CSP 29.12	240 10gb 2 long & 2 short port package	\$136.53	US
CSP 30.01	firesight Defense center 3500 Sourcefire	\$2,763.03	US
csp 32.01	Cisco, ASA5585-S20X-K9	\$32,265.88	US
csp 32.02	Juniper Secure Access 6500 FIPS Base System	\$29,102.99	US
csp 32.03	F5, Big-IP 11000	\$28,890.67	US
csp 32.04	Cisco, ASA5585-S20X-K9	\$83,933.76	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
csp 32.05	Juniper Secure Access 6500 FIPS Base System	\$115,987.32	US
csp 32.06	F5, Big-IP 11000	\$45,129.77	US
CSP 33.01	IBM WebSphere DataPower Service Gateway XG45	\$5,009.53	US
CSP 34.01	Fireeye 8320EM-HW w/15,000 Attach/URL engine licenses	\$2,377.79	US
CSP 34.02	Fireeye 8320EM-HW	\$1,973.53	US
CSP 34.03	Fireeye 7300CM-HW	\$404.26	US
CSP 34.04	Fireeye 8320EM-HW w/15,000 Attach/URL engine licenses	\$2,143.92	US
CSP 34.05	Fireeye 8320EM-HW	\$1,832.71	US
CSP 34.06	Fireeye 7300CM-HW	\$311.21	US
CSP 36.01	BROCADE SX-800 ( 2 1g short, 2 10g long, 2 10g short, 24 1g copper )	\$1,304.06	US
CSP 36.02	BROCADE ICX-6610 (non PoE 24 1g copper, 8 10g short)	\$546.14	US
CSP 37.01	Cisco 3945 w 2g dram w dual power Transfer switch service	\$735.29	US
CSP 38.01	VIPRION 2400 Application Delivery Controller	\$6,325.78	US
CSP 38.02	AX Series 3530	\$5,082.89	US
CSP 39.01	Catalyst 3750X 24 Port Data IP Services w 10g netmod	\$541.52	US
CSP 40.01	Catalyst 3750X 48 Port Data IP Services w (2) 10g netmod	\$678.06	US
CSP 40.02	Catalyst 3750X 48 Port Data IP Services w (2) 10g netmod w nonCaaS power strip pair	\$678.06	US
CSP 41.01	Blue Coat SG900-20, Proxy Edition	\$2,996.65	US
CSP 41.02	Blue Coat SG900-45, Proxy Edition	\$6,738.58	US
CSP 41.03	Blue Coat WebFilter, 3500 users Edition	\$1,643.49	US
CSP 41.04	Blue Coat SG900-10, Proxy Edition	\$2,028.89	US
CSP 41.05	Blue Coat SG600-10, Proxy Edition	\$735.29	US
CSP 41.06	Blue Coat SG600-20, Proxy Edition	\$1,028.28	US
CSP 41.07	Blue Coat SG600-35, Proxy Edition	\$1,538.69	US
CSP 41.08	Blue Coat 400 user Blue Coat WebFilter, add on to base 3500 package (CSP 41.03)	\$199.70	US
CSP 41.09	Blue Coat SG300-10, Proxy Edition	\$466.82	US
CSP 41.10	Blue Coat SG300-25, Proxy Edition	\$535.07	US
CSP 43.01	Checkpoint SG13500 base unit, order with Interface Module units CSP 43.02 or 43.03, total of 3 per base unit	\$4,362.88	US
CSP 43.02	Interface Module,includes 4 connections, 10g short with SFps	\$1,184.79	US
CSP 43.02	Interface Module,includes 4 connections, 10g long with SFps	\$1,457.85	US

PART NO	PRODUCT DESCRIPTION	GSA Price	COO
CSP 44.01	IBM GX7800 Network Intrusion Prevention Appliance, 4 10g short connections	\$17,657.59	US
CSP 44.02	IBM GX7800 Network Intrusion Prevention Appliance, 2 10g short and 2 10g long connections	\$17,657.59	US
CSP 45.01	CPAP-SG13500-NGFW, 4 10G MM interfaces	\$3,958.62	US
CSP 45.02	CPAP-SG13500-NGFW, 4 10G SM interfaces	\$4,289.65	US
CSP 45.03	CPAP-SG13500-NGFW, 2 10G MM /2 10G SM Interfaces	\$4,089.43	US
CSP 45.04	NETSCALER MPX 10500 FIPS 2X10GX	\$4,480.78	US
CSP 45.05	NetScaler MPX 8600 (6x10/100/1000 and 2x10GE BASE-X SFP+)	\$2,254.93	US
CSP 45.06	Citrix CloudBridge 5000-2000 WAN Optimization Appliance	\$14,480.88	US
CSP 46.01	A10 Thunder 5430 w SSL, no interfaces, add max of (4) 4-packs from csp 46	\$5,919.53	US
CSP 46.02	A10 Thunder 6430 w SSL, no interfaces, add max of (4) 4-packs from csp 46	\$11,344.48	US
CSP 46.03	Thunder5430S and 6430S 1g copper 8port interface module	\$136.53	US
CSP 46.06	Thunder5430S and 6430S 10g mm/short 4port interface module	\$183.96	US
CSP 46.07	Thunder5430S and 6430S 10g sm/long 4port interface module	\$245.10	US
CSP 47.01	SPC1500 Space Platform system, features added from CSP 47.02-04, maximum of 3000 devices per platform, up to 5 systems can be clustered together, for total of 15000 devices managed	\$1,212.79	US
CSP 47.03	Junos Space Security Director Feature for 25 Devices	\$245.10	US
CSP 47.04	Junos Space Security Director Feature for 100 Devices	\$393.46	US

**TERMS AND CONDITIONS APPLICABLE TO KNIGHT POINT SERVICES**

It is understood that the monthly charges are based on a 48 month expected usage term. The agency’s confirmation herein is that an essential need exists for the communication equipment/appliances for 48 months and agrees not to replace or substitute the contract’s equipment/appliances with other equipment/appliances procured outside of KPS’ contract as long as the essential need exists. It is understood that the organizations will pursue the continued appropriation of funds not to exceed one year duration; however, the agency shall not be obligated to continue performance during the full 48 month period if funding is not appropriated and is therefore unavailable. The organization may, at any time within or at the end of the 48 month period and for any reason, acquire the underlying product and terminate the service based on the following table:

IN SERVICE MONTHS	ECONOMIC REMAINING MONTHS	BUYOUT MONTH FACTOR
1	59	48.35
2	58	47.8
3	57	47.26
4	56	46.71
5	55	46.15
6	54	45.59
7	53	45.03
8	52	44.46
9	51	43.88
10	50	43.31
11	49	42.72
12	48	42.13
13	47	41.54
14	46	40.94
15	45	40.34
16	44	39.73
17	43	39.11
18	42	38.49
19	41	37.87
20	40	37.24
21	39	36.6
22	38	56.96
23	37	35.32
24	36	34.67
25	35	34.01
26	34	33.35
27	33	32.68
28	32	32.01
29	31	31.33
30	30	30.65
31	29	29.96
32	28	29.26
33	27	28.56
34	26	27.86
35	25	27.14
36	24	26.43
37	23	25.7

IN SERVICE MONTHS	ECONOMIC REMAINING MONTHS	BUYOUT MONTH FACTOR
38	22	24.97
39	21	24.24
40	20	23.49
41	19	22.75
42	18	21.99
43	17	21.23
44	16	20.47
45	15	19.69
46	14	18.91
47	13	18.13
48	12	17.34
49	11	16.54
50	10	15.74
51	9	14.93
52	8	14.11
53	7	13.29
54	6	12.46
55	5	11.62
56	4	10.77
57	3	9.92
58	2	9.07
59	1	8.2
60	0	7.33

## KNIGHT POINT SYSTEMS' HORIZON® DESCRIPTION

Knight Point Systems' Horizon® is a portfolio of solutions that are intended to be able to span a customer's technology needs across multiple phases of cloud adoption. Through Horizon® customers no longer have to choose an "all or nothing" approach to the Cloud – customers are able to choose the right service model for their system/s: traditional services, on-premise (private) clouds, off-premise (public, private, and community) clouds, or any combination thereof (hybrid clouds)! The Horizon® portfolio currently includes three commercially available cloud computing services broken across the traditional IaaS, PaaS, and SaaS models. Presented in this proposal to be added to Knight Point's GSA Schedule is the first of those models: *Horizon® IaaS Cloud Services* – an infrastructure-as-a-service offering for on-prem or off-prem clouds in any deployment model. A summary of *Horizon® IaaS Cloud Services* offering can be seen in figure 1 below:

	Model	Public	Private	Community	Hybrid	Notes
Horizon® IaaS Cloud Services	IaaS	✓	✓	✓	✓	- Standard IaaS options include: Public, Private, and Federal Community Clouds. - Hybrid model assumes either all clouds are provided or managed by KPS or are compatible* with KPS tools/offering

\* Compatible offerings primarily include any other public cloud with API access to the offering, as well as private clouds with inherent integration options

Table 1 - Summary of Horizon® Cloud Services

## DELIVERY MODELS

Horizon's® base cloud offering is the Horizon® IaaS Cloud. This cloud, acting in an IaaS delivery model, forms the basis on which all of Horizon's® additional cloud offerings are built. The Horizon® IaaS Cloud Service offers compute, storage, and network resources for system administrators who would typically perform the traditional management duties of the rest of the stack. The Horizon® IaaS Cloud Service stresses visible performance expectations, giving Admins the ability to set and measure against their performance requirements. With regards to computing resources, Admins are able to provision VMs of 5 standard sizes – XS, S, M, L, and XL – and can add vCPU and RAM resources in an a la carte method to get to the exact resources needed. Additionally, Admins are able to add storage by the GB at three varying levels of IOPS performance. Lastly, Admins have the option to select networking resources based on expected performance (bandwidth) or quantity of data transferred.

## SERVICE DEPLOYMENT MODELS

Knight Point Systems strives to provide customers with The Technology You Need. When You Need It.® In keeping with that, KPS strives to ensure all of the cloud solutions in the Horizon® portfolio are available in any deployment model so that customers are able to use the technology they need, when and where they need it. This is accomplished in two ways:

- First, KPS ensures Horizon® cloud solutions build off of one another, with any PaaS or SaaS solution taking on the characteristics of the underlying IaaS or PaaS solution, respectively.
- Second, KPS implements IaaS clouds with common architecture across all deployment models, allowing standard PaaS and SaaS solutions to interchangeably build off of any of the IaaS deployments.

These two guiding principles form the basis of how the *Horizon® IaaS Cloud Service* meets the requirements for all deployment models.

The *Horizon® IaaS Cloud Service* is provided to customers in a public deployment via the Horizon® IaaS Commercial Cloud. Currently, Horizon's® Commercial IaaS Cloud is available to any party willing to contract cloud IaaS services. It makes use of industry best practices and standards in accordance with KPS's CMMI Level 2, ISO 27001, and ITSM certifications.

The Horizon® IaaS Cloud Service is provided to Federal customers in a community deployment via the Horizon® IaaS Federal Cloud. This community cloud is available only to Federal customers and in addition

to the standards implemented in the Commercial Cloud, Horizon's® Federal community IaaS cloud also implements FedRAMP and DoD SRG Level 5 controls to ensure the highest level of security possible.

In a private deployment storage, compute, and network equipment and resources are assigned to only service a single customer, and no others, giving them their own “pool” of resources to draw from. These implementations can include the cloud management tools on top of the resources, or not, at the customer's preference. In private IaaS cloud deployments, clouds are set up to technically mirror either public or community security controls as desired, though non-technical implementation of best practices, standards, and security processes will largely depend on the specific solution. Additionally, the KPS model allows bulk purchase of a single resource for private clouds, often referred to as “Storage-as-a-Service”, “Compute-as-a-Service”, or “Capacity-as-a-Service”. These bulk resources purchases may require additional purchase of equipment depending on the overall solution architecture implemented by the customer.

The key enabler to Hybrid deployments is Zeus. At the VM creation screen in Zeus, customers are able to select any cloud they have permissions to deploy to, giving them the ability to create, connect, and manage their virtual resources in any deployment model, all from a single interface.

### **ESSENTIAL CLOUD CHARACTERISTICS**

Access to all Horizon® Solutions and Services is provided through *Zeus*, a first-of-its-kind “as a Service” automation tool that provides our customers with unparalleled visibility into their infrastructure while also streamlining the call order / procurement process. As a result of standardized infrastructure architecture across Horizon® cloud solutions, Zeus is able to connect, view, and provision resources automatically in any Deployment Model. As such, Zeus acts as the customer portal for all Horizon® solutions, enabling those solutions to meet many of the essential characteristics of Cloud Services as defined by NIST.

### ***ON-DEMAND SERVICE***

Through Zeus customers are able to access service catalog information and a call order management system that allows them to provision services at standardized pricing without ever engaging Contractor personnel. Zeus is quickly customized around customers' existing call order processes, with the ability to provide alerts and statuses on call order workflow. It is capable of providing notifications to specific user groups, identifying the action needed for every step of the call order process. This centralized system reduces unnecessary delays typically seen in email-based processes. Additionally, Zeus's centralized billing page gathers all executed orders and self-provisioned services to give the customer a single location to view all consolidated billing information. By automating many of the traditionally manual processes, Zeus reduces call order execution timelines from weeks to mere hours or minutes and generates invoices based on the exact number of services engaged by the customer each month.

In addition to making use of Zeus's call order management and billing features, Horizon® IaaS Cloud Services can be provisioned through the Virtual Machine Management Dashboard in Zeus. Provisioning options are broken into the basic components of Infrastructure: Network, Storage, and Compute. These resource components can be defined for individual VMs or whole environments, giving customers the ability to integrate and provision the exact resources needed in any deployment model – public, private, community, or hybrid; at any location – on-premise or off-premise.

### ***BROAD NETWORK ACCESS***

Zeus is accessible via secure connection over the Internet and can be reached via any standard browser, including those on mobile and tablet devices. This allows customers to provision services in any deployment model, from anywhere, as-needed. Horizon's® common architecture results in all of the Horizon® cloud services following the same rules for network access. These rules are highly dependent on the location and deployment model of the solution and can be seen below:

- Private - Knight Point Systems is able to stand up private cloud solutions on customer premises (on-prem) or off of customer premises (off-prem). If the solution is provided on-prem, network access is entirely dependent on network access at the customer site. It is assumed in these situations that the customer understands their own network access requirements and is able to provide the required levels of connectivity to the solution. There are no restrictions on how customers provide network access to private on-prem clouds, though significant deviation from the standard network architecture of the cloud solution itself may require customer purchase of additional networking equipment. If the solution is off-prem, KPS is able to provide all of the network access options detailed in “Public and Community” below.
- Public and Community – In the Horizon® Public and Community cloud deployment models, KPS acts as the customer's ISP, providing internet access and IP address space. If requirements do not allow internet access, Site-to-Site IPSEC Tunnels are available to extend solutions to customer networks and ensure easy, secure access. The KPS off-premise locations are strategically located in data centers considered to be government “Cloud Access Points” (CAPs), with ready-access to many government internal WANs. As part of any Horizon® cloud service solution, KPS is able to provide cross-connects (Single-Mode fiber, Multi-Mode fiber (62.5 and 50 micron), CAT5, CAT6, CAT5 (T1), CAT3 (POTS), and COAX) as private circuits to other ISP’s or customer’s cages within the same data center, or on the same campus as needed. Lastly, Horizon® solutions include access to the Cloud Exchange: a directly-connected group of over 450 public and private cloud providers that allow connectivity to one another without the customer needing to traverse the internet - saving the customer money and providing more-secure connections.
- Hybrid – If using a hybrid deployment model, KPS Cloud Solutions combine the above three options as needed to provide connectivity. Often customers do not want Internet access to Zeus for hybrid deployments that include private cloud solutions. If security requirements do not allow this, customers are able to use Site-to-Site IPSEC Tunnels to require users log on to the customer network to access Zeus. This allows customers to easily extend their own secure access control implementations to the solution, while still maintaining visibility into the solution.

### ***RESOURCE POOLING***

Cloud computing allows independent computing resources to be pooled, which means that operating environments can be dynamically assigned and reassigned according to consumer demand. In this regard the Horizon® solutions once again build off of one another to ultimately achieve resource pooling. Infrastructure resources like vCPUs, GBs of RAM, GBs of Storage, and Network Bandwidth are pooled together for use by cloud customers. As each customer consumes more resources the pool of available resources shrinks, but when those customers relinquish use of the resources, the pool grows. Zeus allows these resources to be continuously dynamically allocated to whichever customer needs them. In the three Horizon cloud services, each deployment model has its own set of infrastructure resources.

### ***RAPID ELASTICITY***

Elasticity provides the largest benefit to cloud customers: automatically and dynamically scaling computing resources, and adjusting computing resources as required. Rapid elasticity of infrastructure resources is achieved through the provisioning capabilities of Zeus. Through Zeus, customers see decreases in manual ordering activity timelines from weeks and days to hours and minutes or less – giving them the ability to provision, de-provision, and modify services immediately. Through Horizon’s Managed Cloud Service, automated elasticity is achievable for computing resources – where load balancing and auto-scaling tools are implemented to ensure platforms scale to the exact size required by an application at any given moment. Making use of its inherent auto-scaling capabilities, the Horizon DOaaS Service scales each DevOps environment as the number of users increases and storage and compute requirements go up.

**MEASURED SERVICE**

Horizon® Cloud Service customers pay only for what they use. The pay-as-you-go model reduces upfront investment costs and allows resource usage to be transparently monitored, controlled, and reported for both the provider and the consumer. In addition to Zeus providing consolidated billing for all Horizon® Cloud Services, Zeus also serves as the portal for all Horizon® Cloud Service customers to view monitoring statistics for all services provisioned.

Services measurements available to customers:

IaaS Cloud Services
- VM Network Resources Provisioned vs. Used
- VM Compute Resources Provisioned vs. Used
- VM Storage Resources Provisioned vs. Used
- Total Network Resources Provisioned vs. Used
- Total Compute Resources provisioned vs. Used
- Total Storage Resources Provisioned vs. Used

Table 2 – Sample Service Measurements by Cloud Service

In addition to service-specific measurements, through Zeus’s call order management system, customers are able to track statistics on order activities to find workflow choke points as well as other key metrics in the ordering process. Through the Horizon Help Desk, general ticketing statistics are available for all service and help requests submitted to the Horizon Service Desk. Lastly, uptime and outage statistics are available for all Horizon cloud services.

PRODUCT NO	PRODUCT DESCRIPTION	UOI	GSA Price
Bandwidth - 10 Mbps Increment	10Mbps of Bandwidth to customer environment per month	\$ / Increment / Month	\$23.08
Bandwidth - 100 Mbps Increment	100Mbps of Bandwidth to customer environment per month	\$ / Increment / Month	\$201.93
Bandwidth - 1 Gbps Increment	1000Mbps of Bandwidth to customer environment per month	\$ / Increment / Month	\$1,730.79
Bandwidth - Private Circuit	Fee for access to a private circuit (does not include circuit cost)	\$ / Month	\$398.99
Data Transfer Out (0-10,000 GB)	Per GB cost of data transfer each month	\$ / GB / Month	\$0.10
Data Transfer Out (10,001 - 50,000 GB)	Per GB cost of data transfer each month	\$ / GB / Month	\$0.05
Data Transfer Out (50,001 - 150,000 GB)	Per GB cost of data transfer each month	\$ / GB / Month	\$0.03
Data Transfer Out (150,000+ GB)	Per GB cost of data transfer each month	\$ / GB / Month	\$0.02
Public IP	Monthly cost of IP for customer use	\$ / IP / Month	\$0.73

PRODUCT NO	PRODUCT DESCRIPTION	UOI	GSA Price
LAN to LAN IPSEC Tunnel	Monthly cost of LAN to LAN IPSEC Tunnel for customer use	\$ / Tunnel / Month	\$19.95
Gb Storage - Standard	Monthly Cost of 1 GB and .1 IOPS	\$ / GB / Month	\$0.12
Gb Storage - Enhanced	Monthly Cost of 1 GB and 1 IOPS	\$ / GB / Month	\$0.39
Gb Storage - High Performance	Monthly Cost of 1 GB and 10 IOPS	\$ / GB / Month	\$2.82
A La Carte CPU (1 CPU)	Cost to add a single additional CPU to VM	\$ / CPU / Hour	\$0.04
A La Carte RAM (1 GB RAM)	Cost to add a single additional GB of RAM to VM	\$ / GB / Hour	\$0.04
XS (1 CPU, 2Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.09
S (2 CPU, 4Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.15
M (4 CPU, 8Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.25
L (8 CPU, 16Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.51
XL (16CPU, 32Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.85
XS (1 CPU, 2Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.19
S (2 CPU, 4Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.30
M (4 CPU, 8Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.50
L (8 CPU, 16Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$1.01
XL (16CPU, 32Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$1.70
XS (1 CPU, 2Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.19
S (2 CPU, 4Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.30
M (4 CPU, 8Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.50
L (8 CPU, 16Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$1.01
XL (16 CPU, 32Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$1.70
XS (1 CPU, 2Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$0.14
S (2 CPU, 4Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$0.22

PRODUCT NO	PRODUCT DESCRIPTION	UOI	GSA Price
M (4 CPU, 8Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$0.37
L (8 CPU, 16Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$0.75
XL (16CPU, 32Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$1.26
Gb Storage - Standard	Monthly Cost of 1 GB and .1 IOPS	\$ / GB / Month	\$0.23
Gb Storage - Enhanced	Monthly Cost of 1 GB and 1 IOPS	\$ / GB / Month	\$0.72
Gb Storage - High Performance	Monthly Cost of 1 GB and 10 IOPS	\$ / GB / Month	\$5.25
A La Carte CPU (1 CPU)	Cost to add a single additional CPU to VM	\$ / CPU / Hour	\$0.06
A La Carte RAM (1 GB RAM)	Cost to add a single additional GB of RAM to VM	\$ / GB / Hour	\$0.07
XS (1 CPU, 2Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.17
S (2 CPU, 4Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.27
M (4 CPU, 8Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.45
L (8 CPU, 16Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$0.92
XL (16CPU, 32Gb RAM) Resource Only (for BYOL/BYOI)	Bundled Compute Resources	\$ / Bundle / Hour	\$1.55
XS (1 CPU, 2Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.37
S (2 CPU, 4Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.57
M (4 CPU, 8Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.95
L (8 CPU, 16Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$1.90
XL (16CPU, 32Gb RAM, 40Gb) Windows 2008	Bundled Compute Resources with License	\$ / Bundle / Hour	\$3.16
XS (1 CPU, 2Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.37
S (2 CPU, 4Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.57
M (4 CPU, 8Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$0.95
L (8 CPU, 16Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$1.90
XL (16 CPU, 32Gb RAM, 40Gb) Windows 2012	Bundled Compute Resources with License	\$ / Bundle / Hour	\$3.16
XS (1 CPU, 2Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$0.27

PRODUCT NO	PRODUCT DESCRIPTION	UOI	GSA Price
S (2 CPU, 4Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$0.43
M (4 CPU, 8Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$0.71
L (8 CPU, 16Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$1.42
XL (16CPU, 32Gb RAM, 40Gb) RHEL 7	Bundled Compute Resources with Subscription	\$ / Bundle / Hour	\$2.35
Installation: Physical Server (Cabling, HW)	Installation of physical hardware and cabling in data center for managed hosting.	\$ / Install	\$349.12
Installation: Physical Blade Chassis and Blade (Cabling, HW)	Installation of physical hardware and cabling in data center for managed hosting.	\$ / Install	\$349.12
Installation: Physical Network Device / Appliance (Cabling, HW)	Installation of physical hardware and cabling in data center for managed hosting.	\$ / Install	\$349.12
Installation: Server OS	Installation of operating system on physical or virtual machines.	\$ / Install	\$174.56
Installation: Blade Blade Server OS	Installation of operating system on physical machines.	\$ / Install	\$174.56
Installation: Device / Appliance Configuration	Configuration of physical device / appliance.	\$ / Install	\$174.56
Installation: KPS Cloud Management Suite: CloudSeed and Zeus	Installation and configuration of the suite of KPS Cloud Management tools including CloudSeed and Zeus	\$ / Install	\$1,496.22
Horizon Cloud Management Suite	Monthly access to and ongoing maintenance and patching of Horizon Cloud Management Suite	\$ / Cloud / Month	\$997.48
Gb Storage - Standard	Monthly Cost to add 1 GB and .1 IOPS to pool	\$ / GB / Month	\$0.23
Gb Storage - Enhanced	Monthly Cost to add 1 GB and 1 IOPS to pool	\$ / GB / Month	\$0.72
Gb Storage - High Performance	Monthly Cost to add 1 GB and 10 IOPS to pool	\$ / GB / Month	\$5.25
A La Carte CPU (1 CPU)	Cost to add a single additional CPU to pool	\$ / CPU / Month	\$41.65
A La Carte RAM (1 GB RAM)	Cost to add a single additional GB of RAM to pool	\$ / GB / Month	\$49.51

**HIGHLY ADAPTIVE CYBERSECURITY SERVICES (HACS)**

<b>Labor Category &amp; Hourly Rate</b>	<b>Description</b>	<b>Education Requirement</b>	<b>Experience Requirement</b>
<p><b>Systems Engineer 2 (SysE2)</b></p> <p><b>\$98.48</b></p>	<p>The SysE2 analyzes functional business requirements and design specifications for functional activities and provides identification and repair for the problems within existing systems. The SysE2 assists with the design and implementation of new systems, provides cyber security support for those systems, enhances the existing systems, and participates in analysis, design and new construction of next generation IT systems. The SysE2 is responsible for understanding the needs of the customers and the realities of commercially available IT products including those used for a broad range of cyber security activities, and creating requirements that will allow implementation by the architecture and engineering team and COTs products. The SysE2 supports functional security tools, hardware and software operations and maintenance (O&amp;M), development of enhancement requirements and design specifications for cybersecurity activities, and assists with the identification and repair of problems within existing security systems. The SysE2 has experience as a systems engineer on one or more IT platforms and is responsible for understanding the needs of the customers and the realities of commercially available cybersecurity IT products, and creating requirements that will allow implementation by the architecture and engineering team and COTs products.</p>	<p>Associate's Degree or equivalent</p>	<p>3 years of relevant experience</p>

<p><b>Systems Engineer 3 (SysE3)</b></p> <p><b>\$114.20</b></p>	<p>The SysE3 provides identification and repair of problems within existing systems including cyber security related issues, designs and implements new systems and implements enhancements and technical upgrades/refreshes for existing systems. The SysE3 participates in the analysis, design and new construction of next generation IT systems. The SysE3 is responsible for understanding the needs of the customers and the realities of commercially available IT products, and creating requirements that will allow implementation by the development team. The SysE3 has experience as a systems engineer team lead on one or more IT platforms. The SysE3 supports functional security tools, hardware and software operations and maintenance (O&amp;M), development of enhancement requirements and design specifications for cybersecurity activities, and assists with the identification and repair of problems within existing security systems. The SysE3 is responsible for understanding the needs of the customers and the realities of commercially available cybersecurity IT products, and creating requirements that will allow implementation by the architecture and engineering team and COTs products.</p>	<p>Bachelor's Degree or equivalent</p>	<p>6 years of relevant experience</p>
<p><b>Subject Matter Expert (SME 2)</b></p> <p><b>\$164.60</b></p>	<p>The SME2 has specialized experience across one or more specialized and highly technical competencies (eg. Cyber security, cloud computing, etc.). The SME2 generally has an advanced degree, but it is not required. A person is typically designated as a SME2 by a consistent and widespread reputation across the community and discipline in which they work and it is indicative of compensation which is well above the norm is solely based on degree or years of experience.</p>	<p>Bachelor's Degree or equivalent</p>	<p>8 years of relevant experience in the SME field</p>

<b>Subject Matter Expert (SME 3)</b>  <b>\$328.42</b>	The SME3 has specialized experience across one or more specialized and highly technical competencies (eg. Cyber security, cloud computing, etc.). The SME3 has an advanced degree. A person is typically designated as a SME3 by a consistent and widespread reputation across the community and discipline in which they work, and it is indicative of compensation which is well above the norm is solely based on degree or years of experience.	Master's Degree or equivalent	12 years of relevant experience
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<b>Education and Equivalencies Table</b>			
<b>Education</b>	<b>Equivalent Experience w/o Degree</b>	<b>Experience</b>	<b>Equivalent Education</b>
Associate's Degree	3 years of experience	2 Years	Associate's Degree
Bachelor's Degree	5 years of experience	4 Years	Bachelor's Degree
Master's Degree	7 years of experience	6 Years	Master's Degree
PhD	9 years of experience	8 Years	PhD