GENERAL SERVICES ADMINISTRATION FEDERAL SUPPLY SERVICE
AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST

Contractor:
Carahsoft Technology Corp.
11493 Sunset Hills Rd
Reston, VA 20190
Phone: (703) 871-8500 | Fax: (703) 871-8505
www.carahsoft.com

Contract Number:
47QSWA18D008F
Multiple Award Schedule (MAS)

FSC GROUP: MAS
FSC Code 3611, R617, R616

Contract Period:
August 22, 2018 - August 21, 2023
Modification PS-A812: February 21, 2020

Authorized Special Item Numbers (SINs):

<table>
<thead>
<tr>
<th>SIN</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIN 333249</td>
<td>3D Printing and Additive Manufacturing Solutions</td>
</tr>
<tr>
<td>SIN 518210ERM</td>
<td>Electronic Records Management</td>
</tr>
<tr>
<td>SIN 493110RM</td>
<td>Physical Records Management Solutions</td>
</tr>
<tr>
<td>SIN 518210C</td>
<td>Cloud and Cloud-Related IT Professional Services</td>
</tr>
<tr>
<td>SIN 54151S</td>
<td>Information Technology Professional Services</td>
</tr>
<tr>
<td>SIN ANCILLARY</td>
<td>Ancillary Supplies and Services</td>
</tr>
<tr>
<td>SIN OLM</td>
<td>Order Level Materials</td>
</tr>
</tbody>
</table>

Business Size: Other than Small Business
DUNS Number: 088365767

Contact: sales@carahsoft.com

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!, a menu-driven database system. The Internet address for GSA Advantage! is: https://www.gsaadvantage.gov/.
Ordering Instructions/Terms and Conditions

1a. Authorized Special Item Numbers (SINs)
   - 333249 3D Printing and Additive Manufacturing Solutions
   - 518210ERM Electronic Records Management Solutions
   - 493110ERM Physical Records Management Solutions
   - OLM Order Level Materials’
   - 518210C Cloud and Cloud-Related IT Professional Services
   - 54151S Information Technology Professional Services
   - ANCILLARY: Ancillary Supplies and Services

1b. Lowest priced model number and lowest unit price for that model for each SIN awarded in the contract.
The GSA Net Price published on GSA Advantage! reflects the fully burdened price. The negotiated discount has been applied and the Industrial Funding Fee has been added.

2. Maximum order
   - $1,000,000.00 unless otherwise authorized by GSA and the ordering agency

3. Minimum order
   - $100.00

4. Geographic coverage (Delivery Area)
   - Contractor will provide worldwide delivery of software and services.

5. Point(s) of production
   - See attached authorized price list – Appendix D.

6. Discount from list prices or statement of net price
   - Government prices are net (any discounts have already been taken from the published price list). Additional discounts may be offered at the task order level based on quantity, location, and/or scope of work.

7. Quantity discounts
   - None offered.

8. Prompt payment terms
   - None. Payment terms are Net 30. Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions.
9a. Annotate if Government commercial credit card is accepted
[X] YES [ ] NO
Government purchase cards are accepted at or below the micro-purchase threshold.

9b. Discount for payment by Government commercial credit card
None

10. Foreign items (list items by country of origin)
See attached authorized price list – Appendix D.

11a. Time of delivery
Carahsoft Technology will adhere to the delivery schedule as specified in each order.

11b. Expedited Delivery
Contact Contractor to arrange expedited delivery of software and services.

11c. Overnight and 2-day delivery
Contact Contractor to arrange overnight delivery of software.

11d. Urgent Requirements
Contact Contractor with accelerated delivery requirements.

12. F.O.B. Point(s)
Destination

13. Ordering addresses:
Carahsoft Technology Corp.
11493 Sunset Hills Rd
Reston, VA 20190
Phone: (703) 871-8500
Fax: (703) 871-8505
Email: sales@carahsoft.com

Payment address
Jillian Szczepanek
Accounts Receivable
Carahsoft Technology Corp.
11493 Sunset Hills Rd
Reston, VA 20190
703-871-8614 (telephone)
703-871-8505 (facsimile)
14. Warranty provision
   See attached authorized price list – Appendix D.

15. Export packing charges, if applicable  N/A

16. Terms and conditions of Government purchase card acceptance (if applicable) N/A

17. Terms and conditions of rental, maintenance, and repair (if applicable) N/A

18. Terms and conditions of installation N/A

19. Terms and conditions of repair parts indicating date of parts price lists and any discounts from list prices N/A

20. List of service and distribution points N/A

21. List of participating dealers
   See Appendix C.

22. Preventive maintenance (if applicable) N/A

23. Year 2000 (Y2K) Compliant Yes

24. (a) Environmental attributes, e.g., recycled content, energy efficiency, and or reduced pollutants N/A

24. (b) Section 508 compliance
   See http://www.carahsoft.com/buy/section-508-and-vpat

25. Data Universal Number System (DUNS) Number
   088365767; Other than Small Business

26. Notification regarding registration in Central Contractor Registration (CCR/SAM) database
   Carahsoft maintains an active registration in the System for Award Management (SAM).
Software Terms and Conditions

The following terms and conditions apply to all vendors proposing software and related services under MAS, Solicitation 47QSMD20R0001, Office Management Category. Once approved by the MAS Contracting Officer, the negotiated terms should be incorporated into the contractor’s published GSA catalog. Note that these terms and conditions may be further negotiated at the order level by the ordering agency Contracting Officer.

1. INSPECTION/ACCEPTANCE

The Contractor shall only tender for acceptance those items that conform to the requirements of this contract. The ordering activity reserves the right to inspect or test any software that has been tendered for acceptance. The ordering activity may require repair or replacement of nonconforming software at no increase in contract price. The ordering activity must exercise its post-acceptance rights (1) within a reasonable time after the defect was discovered or should have been discovered; and (2) before any substantial change occurs in the condition of the software, unless the change is due to the defect in the software.

2. ENTERPRISE USER LICENSE AGREEMENTS REQUIREMENTS (EULA)

The Contractor shall provide all Enterprise User License Agreements in an editable Microsoft Office (Word) format.

3. GUARANTEE/WARRANTY

a. Unless specified otherwise in this contract, the Contractor’s standard commercial guarantee/warranty as stated in the contract’s commercial pricelist will apply to this contract.

Please Refer to GSAADVANTAGE! For Specific Information Regarding Warranty

b. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract. If no implied warranties are given, an express warranty of at least 60 days must be given in accordance with FAR 12.404(b)(2)

c. Limitation of Liability. Except as otherwise provided by an express or implied warranty, the Contractor will not be liable to the ordering activity for consequential damages resulting from any defect or deficiencies in accepted items.

4. TECHNICAL SERVICES

The Contractor, without additional charge to the ordering activity, shall provide a hot line technical support number 888-662-2724 for the purpose of providing user assistance and guidance in the implementation of the software. The technical support number is available from 8 AM Eastern Time to 5 PM Eastern Time.

5. SOFTWARE MAINTENANCE
a. Software maintenance as it is defined:

☒ Software Maintenance as a Product
Software maintenance as a product includes the publishing of bug/defect fixes via patches and updates/upgrades in function and technology to maintain the operability and usability of the software product. It may also include other no charge support that is included in the purchase price of the product in the commercial marketplace. No charge support includes items such as user blogs, discussion forums, on-line help libraries and FAQs (Frequently Asked Questions), hosted chat rooms, and limited telephone, email and/or web-based general technical support for user’s self-diagnostics.

Software maintenance as a product does NOT include the creation, design, implementation, integration, etc. of a software package. These examples are considered software maintenance as a service.

Software maintenance as a product is billed at the time of purchase.

☐ Software Maintenance as a service
Software maintenance as a service creates, designs, implements, and/or integrates customized changes to software that solve one or more problems and is not included with the price of the software. Software maintenance as a service includes person-to-person communications regardless of the medium used to communicate: telephone support, on-line technical support, customized support, and/or technical expertise which are charged commercially. Software maintenance as a service is billed arrears in accordance with 31 U.S.C. 3324.

Software maintenance as a service is billed in arrears in accordance with 31 U.S.C. 3324.

b. Invoices for maintenance service should be submitted to the ordering agency on a quarterly or monthly basis (or as otherwise specified by the ordering activity), after the completion of such period. Maintenance charges must be paid in arrears (31 U.S.C. 3324). PROMPT PAYMENT DISCOUNT, IF APPLICABLE, SHALL BE SHOWN ON THE INVOICE.

6. PERIODS OF TERM LICENSES AND SOFTWARE MAINTENANCE

a. The Contractor shall honor orders for periods for the duration of the contract period or a lesser period of time.

b. Term licenses and/or maintenance may be discontinued by the ordering activity on thirty (30) calendar days written notice to the Contractor.

c. Annual Funding. When annually appropriated funds are cited on an order for term licenses and/or maintenance, the period of the term licenses and/or maintenance shall automatically expire on September 30 of the contract period, or at the end of the contract period, whichever occurs first. Renewal of the term licenses and/or maintenance orders...
citing the new appropriation shall be required, if the term licenses and/or maintenance is to be continued during any remainder of the contract period.

d. Cross-Year Funding Within Contract Period. Where an ordering activity’s specific appropriation authority provides for funds in excess of a 12 month (fiscal year) period, the ordering activity may place an order under this schedule contract for a period up to the expiration of the contract period, notwithstanding the intervening fiscal years.

e. Ordering activities should notify the Contractor in writing thirty (30) calendar days prior to the expiration of an order, if the term licenses and/or maintenance is to be terminated at that time. Orders for the continuation of term licenses and/or maintenance will be required if the term licenses and/or maintenance is to be continued during the subsequent period.

Note: The phrase, “Term Licenses and/or Maintenance” in the preceding paragraphs may need to be revised in order to be consistent with the Offeror’s proposal; e.g., if only software maintenance is offered, all references to “term licenses” should be deleted from the preceding paragraphs.

7. CONVERSION FROM TERM LICENSE TO PERPETUAL LICENSE

a. The ordering activity may convert term licenses to perpetual licenses for any or all software at any time following acceptance of software. At the request of the ordering activity the Contractor shall furnish, within ten (10) calendar days (or as otherwise specified by the ordering activity), for each software product that is contemplated for conversion, the total amount of conversion credits which have accrued while the software was on a term license and the date of the last update or enhancement.

b. Conversion credits which are provided shall, within the limits specified, continue to accrue from one contract period to the next, provided the software remains on a term license within the ordering activity.

c. The term license for each software product shall be discontinued on the day immediately preceding the effective date of conversion from a term license to a perpetual license.

d. The price the ordering activity shall pay will be the perpetual license price that prevailed at the time such software was initially ordered under a term license, or the perpetual license price prevailing at the time of conversion from a term license to a perpetual license, whichever is the less, minus an amount equal to N/A % of all term license payments during the period that the software was under a term license within the ordering activity.

8. TERM LICENSE CESSATION

a. After a software product has been on a continuous term license for a period of N/A months, a fully paid-up, non-exclusive, perpetual license for the software product shall automatically accrue to the ordering activity. The period of continuous term license for automatic accrual of a fully paid-up perpetual license does not have to be achieved during a particular fiscal year; it is a written Contractor commitment which continues to be available for software
that is initially ordered under this contract, until a fully paid-up perpetual license accrues to the ordering activity. However, should the term license of the software be discontinued before the specified period of the continuous term license has been satisfied, the perpetual license accrual shall be forfeited.

Note: Each separately priced software product shall be individually enumerated, if different accrual periods apply for the purpose of perpetual license attainment.

b. The Contractor agrees to provide updates and maintenance service for the software after a perpetual license has accrued, at the MAS-awarded terms and conditions, if the licensee elects to order such services. Title to the software shall remain with the Contractor.

9. UTILIZATION LIMITATIONS

a. Software acquisition is limited to commercial computer software defined in FAR Part 2.101.

b. When acquired by the ordering activity, commercial computer software and related documentation so legend shall be subject to the following:

   (1) Title to and ownership of the software and documentation shall remain with the Contractor, unless otherwise specified.

   (2) Software licenses are by site and by ordering activity. An ordering activity is defined as a cabinet level or independent ordering activity. The software may be used by any subdivision of the ordering activity (service, bureau, division, command, etc.) that has access to the site the software is placed at, even if the subdivision did not participate in the acquisition of the software. Further, the software may be used on a sharing basis where multiple agencies have joint projects that can be satisfied by the use of the software placed at one ordering activity's site. This would allow other agencies access to one ordering activity's database. For ordering activity public domain databases, user agencies and third parties may use the computer program to enter, retrieve, analyze and present data. The user ordering activity will take appropriate action by instruction, agreement, or otherwise, to protect the Contractor's proprietary property with any third parties that are permitted access to the computer programs and documentation in connection with the user ordering activity's permitted use of the computer programs and documentation. For purposes of this section, all such permitted third parties shall be deemed agents of the user ordering activity.

   (3) Except as is provided in paragraph 9.b.(2) above, the ordering activity shall not provide or otherwise make available the software or documentation, or any portion thereof, in any form, to any third party without the prior written approval of the Contractor. Third parties do not include prime Contractors, subcontractors and agents of the ordering activity who have the ordering activity's permission to use the licensed software and documentation at the facility, and who have agreed to use the licensed software and documentation only in accordance with these restrictions. This
provision does not limit the right of the ordering activity to use software, documentation, or information therein, which the ordering activity may already have or obtains without restrictions.

(4) The ordering activity shall have the right to use the computer software and documentation with the computer for which it is acquired at any other facility to which that computer may be transferred, or in cases of Disaster Recovery, the ordering activity has the right to transfer the software to another site if the ordering activity site for which it is acquired is deemed to be unsafe for ordering activity personnel; to use the computer software and documentation with a backup computer when the primary computer is inoperative; to copy computer programs for safekeeping (archives) or backup purposes; to transfer a copy of the software to another site for purposes of benchmarking new hardware and/or software; and to modify the software and documentation or combine it with other software, provided that the unmodified portions shall remain subject to these restrictions.

(5) "Commercial Computer Software" may be marked with the Contractor's standard commercial restricted rights legend, but the schedule contract and schedule pricelist, including this clause, "Utilization Limitations" are the only governing terms and conditions, and shall take precedence and supersede any different or additional terms and conditions included in the standard commercial legend.

10. SOFTWARE CONVERSIONS:

   Full monetary credit will be allowed to the ordering activity when conversion from one version of the software to another is made as the result of a change in operating system, or from one computer system to another. Under a perpetual license, the purchase price of the new software shall be reduced by the amount that was paid to purchase the earlier version. Under a term license, conversion credits which accrued while the earlier version was under a term license shall carry forward and remain available as conversion credits which may be applied towards the perpetual license price of the new version.

11. DESCRIPTIONS AND EQUIPMENT COMPATIBILITY

   The Contractor shall include, in the schedule pricelist, a complete description of each software product and a list of equipment on which the software can be used. Also, included shall be a brief, introductory explanation of the modules and documentation which are offered.

12. RIGHT-TO-COPY PRICING

   The Contractor shall propose pricing for right-to-copy licenses.

Table of Awarded Special Item Numbers (SINs)

<table>
<thead>
<tr>
<th>SIN 333249:</th>
<th>3D Printing and Additive Manufacturing Solutions</th>
</tr>
</thead>
</table>

11493 Sunset Hills Rd. | Suite 100 | Reston, VA 20190 | T: 703.871.8500 | 888.66.CARAH | F: 703.871.8505 | www.carahsoft.com
Special Item Number Information

SIN 333249: 3D Printing and Additive Manufacturing Solutions

333249 Includes printers; ancillary equipment, technical services and supplies required to generate functional prototype images and printed objects. Equipment may include all classes and sizes of 3D Printers, laser imaging devices, post processing devices and ancillary accessories and software to produce functional items. Technical services include but are not limited to: 3D Printing and laser imaging to produce a digital file used to generate functional prototype images and printed objects. All types of consumables and other items related to this SIN are included.

SIN 518210ERM: Electronic Records Management

518210ERM Electronic Records Management Solutions provide a comprehensive capability to solve the complex challenges posed by the movement, manipulation, archiving, security, and management of electronic records. The vendor provides professional management and administrative support personnel with the necessary skills to perform effective record management services for both classified and/or unclassified records. The services are provided using either Government or vendor equipment and facilities or a combination of both. The objective of electronic records management services is to permit the access, maintenance, control, storage, disposition, and transfer of electronic records. Includes any ancillary supplies and/or services necessary to provide a total electronic records management solution.
Vendor Certification for SIN 518210ERM --- Electronic Records Management Solutions

For the purposes of the Schedule 36 Solicitation (3FNJ-C1-000001-B), eleven (11) specific elements of Electronic Records Management (ERM) Services have been identified. These 11 elements are fully defined and the corresponding requirements are identified in the Universal Electronic Records Management Requirements attachment to the solicitation. These requirements have been established and are administered by the National Archives & Records Administration (NARA).

Vendors may provide any combination of the 11 elements of ERM Services; however, vendors must certify that they are capable of meeting all standards associated with the elements they propose by completing this certification. Vendors should include a completed copy of this certification in their published GSA catalog to illustrate their ERM capabilities.

Carahsoft Technology Corp.  1860
Michael Faraday Drive Suite 100
Reston, VA 20190

Proposed Elements of Electronic Records Management Services:
[Select all that apply]

☐ Element 1 - Desktop Applications
☒ Element 2 - Electronic Messages
☒ Element 3 - Social Media
☐ Element 4 - Cloud Services
☐ Element 5 - Websites
☒ Element 6 - Digital Media (Photo)
☒ Element 7 - Digital Media (Audio)
☒ Element 8 - Digital Media (Video)
☐ Element 9 - Databases
☒ Element 10 - Shared Drives
☒ Element 11 - Engineering Drawings

Carahsoft Technology Corp. hereby certifies that we are capable of meeting all standards described in Solicitation -3FNJ-C1-000001-B and the Universal Electronic Records Management Requirements attachment for each of the sections of ERM Services we have proposed, as indicated above.
SIN 493110RM: Physical Records Management Solutions

493110RM Includes capabilities to manage the movement, manipulation, archiving, security, and management of physical records, including any ancillary supplies and/or services necessary to provide a total physical records management solution.

SIN 518210C: Cloud and Cloud-Related IT Professional Services

Includes commercially available cloud computing services such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) and emerging cloud services. IT professional services that are focused on providing the types of services that support the Government’s adoption of, migration to or governance/management of Cloud computing. Specific labor categories and/or fixed price solutions (e.g. migration services, etc.) that support activities associated with assessing Cloud solutions, refactoring workloads for Cloud solutions, migrating legacy or other systems to Cloud solutions, providing management/governance of Cloud solutions, DevOps, developing cloud native applications or other Cloud oriented activities.

NOTE: Subject to Cooperative Purchasing

FSC/PSC Class D305 IT AND TELECOM- TELEPROCESSING, TIMESHARE, AND CLOUD COMPUTING
Cloud Computing Services

Table 1: Cloud Computing Services (i.e. IaaS, etc.)

<table>
<thead>
<tr>
<th>SIN Description</th>
<th>Sub-Categories</th>
</tr>
</thead>
<tbody>
<tr>
<td>● Commercially available cloud computing services</td>
<td>1. <strong>Software as a Service (SaaS):</strong> Consumer uses provider’s applications on cloud infrastructure. Does not manage/control platform or infrastructure. Limited application level configuration may be available.</td>
</tr>
<tr>
<td>● Meets the National Institute for Standards and Technology (NIST) definition of Cloud Computing essential characteristics</td>
<td>2. <strong>Platform as a Service (PaaS):</strong> Consumer deploys applications onto cloud platform service using provider-supplied tools. Has control over deployed applications and some limited platform configuration but does not manage the platform or infrastructure.</td>
</tr>
<tr>
<td>● Open to all deployment models (private, public, community or hybrid), vendors specify deployment models</td>
<td>3. <strong>Infrastructure as a Service (IaaS):</strong> Consumer provisions computing resources. Has control over OS, storage, platform, deployed applications and some limited infrastructure configuration, but does not manage the infrastructure.</td>
</tr>
</tbody>
</table>

NOTE: Offerors may optionally select the single sub-category that best fits each cloud service offering, per Service
Model Guidance, or select no sub-category if the offering does not fit an existing NIST service model.

DESCRIPTION OF CLOUD COMPUTING SERVICES (i.e. IaaS, etc.) AND PRICING

a) The information provided below is designed to assist Offerors in qualifying cloud computing services and provide complete descriptions.

b) In addition to standard pricing requirements, all pricing models must have the core capability to meet the NIST Essential Cloud Characteristics, particularly with respect to on-demand self-service, while allowing alternate variations at the task order level at agency discretion, pursuant to the guidance on NIST Essential Characteristics.

Table 2 summarizes the additional Offeror provided description requirements for services proposed under the Cloud Computing Services (i.e. IaaS, etc.). All mandatory description requirements must be complete, and adequate according to evaluation criteria.

<table>
<thead>
<tr>
<th>#</th>
<th>Description Requirement</th>
<th>Reporting Type</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Provide a brief written description of how the proposed cloud computing services (i.e. IaaS, etc.) satisfies each individual essential NIST Characteristic</td>
<td>Mandatory</td>
<td>The cloud service must be capable of satisfying each of the five NIST essential Characteristics as outlined in NIST Special Publication 800-145. See ‘GUIDANCE FOR CONTRACTORS: NIST Essential Characteristics’ below in this document for detailed overall direction, as well as guidance on inheriting essential characteristics. The NIST “Measured Service” characteristic requires a minimal “pay as you go” unit of measurement appropriate for the service. In the case of SaaS, the appropriate maximum measured increment of service shall be no more than 30 days per user, or some other equivalent discrete measurement that provides the government with the advantage of frequent (approximately every 30 days) “pay as you go” metering cycles. SaaS products, where consumption is only measured on an annual basis, may better fit under “Term Software License” SIN 132-32. Likewise, offers of any combinations of IaaS, PaaS or any other cloud product services in a bundle or other fashion that do not meet the frequency requirements of approximately 30-day measurement and billing cycles, will not be accepted as complying with the NIST Measured Service characteristic.</td>
</tr>
</tbody>
</table>
In addition there is one “Optional” reporting descriptions which exists to provide convenient service selection by relevant criteria. Where provided, optional description requirements must be complete and adequate according to evaluation criteria:

1) The NIST Service Model provides sub-categories for the Cloud SIN and is strongly encouraged, but not required. The Service Model based sub-categories provide this SIN with a structure to assist ordering activities in locating and comparing services of interest. Contractors may optionally select the single service model most closely corresponding to the specific service offering.

2) If a sub-category is selected it will be evaluated with respect to the NIST Service Model definitions and guidelines in “Guidance for Contractors”.

Table 2: Cloud Service Description Requirements

2) GUIDANCE FOR OFFERORS

This section offers guidance for interpreting the Contractor Description Requirements in Table 2 (above) including the NIST essential cloud characteristics, service models and deployment models. This section is not a list of requirements.

Offeror specific definitions of cloud computing characteristics and models or significant variances from the NIST essential characteristics or models are discouraged and will not be considered in the scope of this SIN or accepted in response to evaluation factors. The only applicable cloud characteristics, service model/subcategories and deployment models for this SIN will be drawn from the NIST 800-145 special...
Services qualifying for listing as cloud computing services (i.e. IaaS, etc.) under this SIN must substantially satisfy the essential characteristics of cloud computing as documented in the NIST Definition of Cloud Computing SP 800-145.¹

Offerors must select deployment models corresponding to each way the service can be deployed. Multiple deployment model designations for a single cloud service are permitted but at least one deployment model must be selected.

Both Cloud service model (i.e. IaaS, etc.) and deployment model (i.e. public, etc.) designations must accord with NIST definitions. Guidance is offered in this document on making the most appropriate selection.

a) NIST Essential Characteristics

### General Guidance

NIST’s essential cloud characteristics provide a consistent metric for whether a service is eligible for inclusion in this SIN. It is understood that due to legislative, funding and other constraints that government entities cannot always leverage a cloud service to the extent that all NIST essential characteristics are commercially available. For the purposes of the Cloud SIN, meeting the NIST essential characteristics is determined by whether each essential capability of the commercial service is available for the service, whether or not the Ordering Activity actually requests or implements the capability. The guidance in Table 3 offers examples of how services might or might not be included based on the essential characteristics, and how the Contractor should interpret the characteristics in light of current government contracting processes.

Table 3: Guidance on Meeting NIST Essential Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Capability</th>
<th>Guidance</th>
</tr>
</thead>
</table>
| On-demand self-service  | ● Ordering activities can directly provision services without requiring Contractor intervention.  
                         | ● This characteristic is typically implemented via a service console or programming interface for provisioning | Government procurement guidance varies on how to implement on-demand provisioning at this time. Ordering activities may approach on-demand in a variety of ways, including “not-to-exceed” limits, or imposing monthly or other appropriate payment cycles on what are essentially on demand services.  
Services under this SIN must be capable of true on-demand self-service, and ordering activities and Contractors must negotiate how they implement on-demand capabilities in practice at the task order level:  
● Ordering activities must specify their procurement approach and requirements for on-demand service  
● Contractors must propose how they intend to meet the approach  
● Contractors must certify that on-demand self-service is technically available for their service should procurement guidance become available. |

Cloud Services (i.e. IaaS, etc.) may depend on other cloud services, and cloud service models such as PaaS and SaaS are able to inherit essential characteristics from other cloud services that support them. For example a PaaS platform service can inherit the broad network access made available by the IaaS service it runs on, and in such a situation would be fully compliant with the broad network access essential characteristic. Cloud Services (i.e. IaaS, etc.) inheriting essential characteristics must make the inherited characteristic fully available at their level of delivery to claim the relevant characteristic by inheritance.

Inheriting characteristics does not require the inheriting provider to directly bundle or integrate the inherited service, but it does require a reasonable measure of support and identification. For example, the Ordering Activity may acquire an IaaS service from “Provider A” and a PaaS service from “Provider B”. The PaaS service may inherit broad network access from “Provider A” but must identify and support the inherited service as an acceptable IaaS provider.

<table>
<thead>
<tr>
<th>Broad Network Access</th>
<th>Ordering activities are able to access services over standard agency networks.</th>
<th>Broad network access must be available without significant qualification and in relation to the deployment model and security domain of the service.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Service can be accessed and provisioned using standard devices such as browsers, tablets and mobile phones.</td>
<td>Contractors must specify any ancillary activities, services or equipment required to access cloud services or integrate cloud with other cloud or non-cloud networks and services. For example, a private cloud might require an Ordering Activity to purchase or provide a dedicated router, etc., which is acceptable but should be indicated by the Contractor.</td>
</tr>
<tr>
<td>Resource Pooling</td>
<td>Pooling distinguishes cloud services from simple offsite hosting.</td>
<td>The cloud service must draw from a pool of resources and provide an automated means for the Ordering Activity to dynamically allocate them.</td>
</tr>
<tr>
<td></td>
<td>Ordering activities draw resources from a common pool maintained by the Contractor.</td>
<td>Manual allocation, e.g. manual operations at a physical server farm where Contractor staff configure servers in response to Ordering Activity requests, does not meet this requirement.</td>
</tr>
<tr>
<td></td>
<td>Resources may have general characteristics such as regional location.</td>
<td>Similar concerns apply to software and platform models; automated provisioning from a pool is required.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ordering activities may request dedicated physical hardware, software or platform resources to access a private cloud deployment service. However, the provisioned cloud resources must be drawn from a common pool and automatically allocated on request.</td>
</tr>
<tr>
<td>Rapid Elasticity</td>
<td>Rapid provisioning and de-provisioning commensurate with demand.</td>
<td>Rapid elasticity is a specific demand-driven case of self-service.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>‘Rapid’ should be understood as measured in minutes and hours, not days or weeks.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Elastic capabilities by manual request, e.g. via a console operation or programming interface call, are required.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Automated elasticity which is driven dynamically by system load, etc. is optional. Contractors must specify whether automated demand-driven elasticity is available and the general mechanisms that drive the capability.</td>
</tr>
<tr>
<td>Measured Service</td>
<td>Measured service should be understood as a reporting requirement that enables an Ordering Activity to control their use in cooperation with self service.</td>
<td>Procurement guidance for on-demand self-service applies to measured service as well, i.e. rapid elasticity must be technically available but ordering activities and Contractors may mutually designate other contractual arrangements.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Regardless of specific contractual arrangements, reporting must indicate actual usage, be continuously available to the Ordering Activity, and provide meaningful metrics appropriate to the service measured.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contractors must specify that measured service is available and the general sort of metrics and mechanisms available.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The goal of the Measured Service requirement is to ensure Ordering Activities realize the full benefit of “pay as you go” consumption models. Consumption measurements that are not discrete enough or frequent enough (greater than 30 days), will not fulfill this NIST essential characteristic and will not be eligible for inclusion in this SIN.</td>
</tr>
</tbody>
</table>
Assessing Broad Network Access

Typically broad network access for public deployment models implies high bandwidth access from the public internet for authorized users. In a private cloud deployment internet access might be considered broad access, as might be access through a dedicated shared high bandwidth network connection from the Ordering Activity, in accord with the private nature of the deployment model.

Resource Pooling and Private Cloud

All cloud resource pools are finite, and only give the appearance of infinite resources when sufficiently large, as is sometimes the case with a public cloud. The resource pool supporting a private cloud is typically smaller with more visible limits. A finite pool of resources purchased as a private cloud service qualifies as resource pooling so long as the resources within the pool can be dynamically allocated to the ultimate users of the resource, even though the pool itself appears finite to the Ordering Activity that procures access to the pool as a source of dynamic service allocation.

1) **NIST Service Model**

The Contractor may optionally document the service model of cloud computing (e.g. IaaS, PaaS, SaaS, or a combination thereof, that most closely describes their offering, using the definitions in The NIST Definition of Cloud Computing SP 800-145. The following guidance is offered for the proper selection of service models.

NIST’s service models provide this SIN with a set of consistent sub-categories to assist ordering activities in locating and comparing Cloud services (i.e. IaaS, etc.) of interest. Service model is primarily concerned with the nature of the service offered and the staff and activities most likely to interact with the service. Contractors should select a single service model most closely corresponding to their proposed service based on the guidance below. It is understood that cloud services can technically incorporate multiple service models and the intent is to provide the single best categorization of the service.

Contractors should take care to select the NIST service model most closely corresponding to each service offered. Contractors should not invent, proliferate or select multiple cloud service model sub-categories to distinguish their offerings, because ad-hoc categorization prevents consumers from comparing similar offerings. Instead vendors should make full use of the existing NIST categories to the fullest extent possible.

For example, in this SIN an offering commercially marketed by a Contractor as “Storage as a Service” would be properly characterized as Infrastructure as a Service (IaaS), storage being a subset of infrastructure. Services commercially marketed as “LAMP as a Service” or “Database as a Service” would be properly characterized under this SIN as Platform as a Service (PaaS), as they deliver two kinds of platform services. Services commercially marketed as “Travel Facilitation as a Service” or “Email as a Service” would be properly characterized as species of Software as a Service (SaaS) for this SIN.

However, Contractors can and should include appropriate descriptions (including commercial marketing terms) of the service in the full descriptions of the service’s capabilities.

When choosing between equally plausible service model sub-categories, Contractors should consider several factors:

- a) Visibility to the Ordering Activity. Service model sub-categories in this SIN exist to help Ordering Activities match their requirements with service characteristics. Contractors should select the most intuitive and appropriate service model from the point of view of an Ordering Activity.
b) Primary Focus of the Cloud Service (i.e. IaaS, etc.). Services may offer a mix of capabilities that span service models in the strict technical sense. For example, a service may offer both IaaS capabilities for processing and storage, along with some PaaS capabilities for application deployment, or SaaS capabilities for specific applications. In a service mix situation the Contractor should select the service model that is their primary focus. Alternatively contractors may choose to submit multiple service offerings for the SIN, each optionally and separately subcategorized.

c) Ordering Activity Role. Contractors should consider the operational role of the Ordering Activity’s primary actual consumer or operator of the service. For example services most often consumed by system managers are likely to fit best as IaaS; services most often consumed by application deployers or developers as PaaS, and services most often consumed by business users as SaaS.

d) Lowest Level of Configurability. Contractors can consider IaaS, PaaS and SaaS as an ascending hierarchy of complexity, and select the model with the lowest level of available Ordering Activity interaction. As an example, virtual machines are an IaaS service often bundled with a range of operating systems, which are PaaS services. The Ordering Activity usually has access to configure the lower level IaaS service, and the overall service should be considered IaaS. In cases where the Ordering Activity cannot configure the speed, memory, network configuration, or any other aspect of the IaaS component, consider categorizing as a PaaS service.

Cloud management and cloud broker services should be categorized based on their own characteristics and not those of the other cloud services that are their targets. Management and broker services typically fit the SaaS service model, regardless of whether the services they manage are SaaS, PaaS or IaaS. Use Table 3 to determine which service model is appropriate for the cloud management or cloud broker services, or, alternately choose not to select a service model for the service.

The guidance in Table 4 offers examples of how services might be properly mapped to NIST service models and how a Contractor should interpret the service model sub-categories.

Table 4: Guidance on Mapping to NIST Service Models

<table>
<thead>
<tr>
<th>Service Model</th>
<th>Guidance</th>
</tr>
</thead>
</table>

11493 Sunset Hills Rd. | Suite 100 | Reston, VA 20190 | T: 703.871.8500 | 888.66.CARAH | F: 703.871.8505 | www.carahsoft.com
| Infrastructure as a Service (IaaS) | Select an IaaS model for service based equivalents of hardware appliances such as virtual machines, storage devices, routers and other physical devices.  
- IaaS services are typically consumed by system or device managers who would configure physical hardware in a non-cloud setting  
- The principal customer interaction with an IaaS service is provisioning then configuration, equivalent to procuring and then configuring a physical device.  
Examples of IaaS services include virtual machines, object storage, disk block storage, network routers and firewalls, software defined networks.  
Gray areas include services that emulate or act as dedicated appliances and are directly used by applications, such as search appliances, security appliances, etc. To the extent that these services or their emulated devices provide direct capability to an application they might be better classified as Platform services (PaaS). To the extent that they resemble raw hardware and are consumed by other platform services they are better classified as IaaS. |
Platform as a Service (PaaS)

Select a PaaS model for service based equivalents of complete or partial software platforms. For the purposes of this classification, consider a platform as a set of software services capable of deploying all or part of an application.

- A complete platform can deploy an entire application. Complete platforms can be proprietary or open source.
- Partial platforms can deploy a component of an application which combined with other components make up the entire deployment.
- PaaS services are typically consumed by application deployment staff whose responsibility is to take a completed agency application and cause it to run on the designated complete or partial platform service.
- The principal customer interaction with a PaaS service is deployment, equivalent to deploying an application or portion of an application on a software platform service.
- A limited range of configuration options for the platform service may be available.

Examples of complete PaaS services include:

- A Linux/Apache/MySQL/PHP (LAMP) platform ready to deploy a customer PHP application,
- a Windows .Net platform ready to deploy a .Net application,
- A custom complete platform ready to develop and deploy a customer application in a proprietary language,
- A multiple capability platform ready to deploy an arbitrary customer application on a range of underlying software services.

The essential characteristic of a complete PaaS is defined by the customer’s ability to deploy a complete custom application directly on the platform.

PaaS includes partial services as well as complete platform services. Illustrative examples of individual platform enablers or components include:

- A database service ready to deploy a customer’s tables, views and procedures,
- A queuing service ready to deploy a customer’s message definitions,
- A security service ready to deploy a customer’s constraints and target applications for continuous monitoring.

The essential characteristic of an individual PaaS component is the customer’s ability to deploy their unique structures and/or data onto the component for a partial platform function.

Note that both the partial and complete PaaS examples all have two things in common:

- They are software services, which offer significant core functionality out of the box.
- They must be configured with customer data and structures to deliver results.

As noted in IaaS, operating systems represent a gray area in that OS is definitely a platform service, but is typically bundled with IaaS infrastructure. If your service provides an OS but allows for interaction with infrastructure, please sub-categorize it as IaaS. If your service “hides” underlying infrastructure, consider it as PaaS.
Software as a Service (SaaS)

Select a SaaS model for service based equivalents of software applications.

- SaaS services are typically consumed by business or subject-matter staff who would interact directly with the application in a non-cloud setting.
- The principal customer interaction with a SaaS service is actual operation and consumption of the application services the SaaS service provides.

Some minor configuration may be available, but the scope of the configuration is limited to the scope and then the permissions of the configuring user. For example an agency manager might be able to configure some aspects of the application for their agency but not all agencies. An agency user might be able to configure some aspects for themselves but not everyone in their agency. Typically only the Contractor would be permitted to configure aspects of the software for all users.

Examples of SaaS services include email systems, business systems of all sorts such as travel systems, inventory systems, etc., wiki’s, websites or content management systems, management applications that allow a customer to manage other cloud or non-cloud services, and in general any system where customers interact directly for a business purpose.

Gray areas include services that customers use to configure other cloud services, such as cloud management software, cloud brokers, etc. In general these sorts of systems should be considered SaaS, per guidance in this document.

2) Deployment Model

Deployment models (e.g. private, public, community, or hybrid) are not restricted at the SIN level and any specifications for a deployment model are the responsibility of the Ordering Activity.

Multiple deployment model selection is permitted, but at least one model must be selected. The guidance in Table 4 offers examples of how services might be properly mapped to NIST deployment models and how the Contractor should interpret the deployment model characteristics. Contractors should take care to select the range of NIST deployment models most closely corresponding to each service offered.

Note that the scope of this SIN does not include hardware or software components used to construct a cloud, only cloud capabilities delivered as a service, as noted in the Scope section.

Table 5: Guidance for Selecting a Deployment Model

<table>
<thead>
<tr>
<th>Deployment Model</th>
<th>Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Cloud</td>
<td>The service is provided exclusively for the benefit of a definable organization and its components; access from outside the organization is prohibited. The actual services may be provided by third parties, and may be physically located as required, but access is strictly defined by membership in the owning organization.</td>
</tr>
</tbody>
</table>
Public Cloud

The service is provided for general public use and can be accessed by any entity or organization willing to contract for it.

Community Cloud

The service is provided for the exclusive use of a community with a definable shared boundary such as a mission or interest. As with private cloud, the service may be in any suitable location and administered by a community member or a third party.

Hybrid Cloud

The service is composed of one or more of the other models. Typically hybrid models include some aspect of transition between the models that make them up, for example a private and public cloud might be designed as a hybrid cloud where events like increased load permit certain specified services in the private cloud to run in a public cloud for extra capacity, e.g. bursting.

SIN 54151S: Information Technology Professional Services

IT Professional Services and/or labor categories for database planning and design; systems analysis, integration, and design; programming, conversion and implementation support; network services, data/records management, and testing.

NOTE: Subject to Cooperative Purchasing

Commercial Job Title: Consulting Engineer

Minimum/General Experience: Has approximately 5 years of experience. Possesses understanding covering the planning, research, development, design, testing, evaluation, production, analysis, and implementation of information systems, programs and equipment. Provides technical assistance to others working on requirements, definition, system requirements analysis, system level design and integration, operations support planning and/or the coordination of the preparation of system development specifications and specialty engineering plans. May be skilled in systems engineering, electrical engineering or industrial engineering activities.

Functional Responsibility: Working under close supervision, person provides technical or scientific and project support for multiple large-scale projects that cross-cut multiple specialization and product development areas. Applies advanced business and/or technical expertise to assist others with defining, analyzing, validating and documenting complex customer operating environments, states of technology and current engineering processes. Provides advanced technical support to others involved in applying specialized knowledge to complex customer processes and requirements. Supports complex technical investigations through advanced
research techniques, analysis or development phases of engineering projects. Works with other engineering disciplines in the development and application of processes to improve quality, reliability, cost customer appeal, and satisfaction.
Minimum Education: B.A. or B.S. in Computer Science, Engineering, Mathematics, Economics or Business.

**Commercial Job Title: Information Architect**
Minimum/General Experience: Has approximately 2 years of experience with skills covering the planning, research, development, design, testing, evaluation, production, analysis, and implementation of multi-tier network configurations for web enabled applications. Possesses a clear understanding of the interrelationships of firewalls, network devices, and servers and clear knowledge of a specific web enabling technology (i.e. Microsoft or Netscape servers). Possesses experience with database and/or email integration, Internet network design (DMZ, routers, switching) and system administration practices.
Functional Responsibility: Designs Intranet/Internet/Extranet architectures and develops implementations plans; administration activity; i.e., hardware, security, firewalls. Implements security architecture using LDAP, SSL and firewalls. Installs, configures and maintains all Intranet/Internet/Extranet tools, databases and features; provides support to e-commerce and other systems. Implements server design, development, and operation as well as analyze and develop requirements for hardware sizing/capacity, data validation, security and integration points to other applications.
Minimum Education: B.S. in Engineering, Mathematics, Computer Science, Operations Research, or applied science.

**Commercial Job Title: Project Manager**
Minimum/General Experience: Has approximately 2 years of experience within information system project oriented environments. Leads planning, scheduling, monitoring, and reporting activities for projects. Facilitates needs assessment and development of recommended project control solutions to be used for planning, scheduling and tracking of each project though integration of various project management tools. Develops project controls and reporting procedures. Assists in the training of the project team on application of the procedures. Analyzes project progress/costs and assists with development and evaluation of alternatives when the project falls behind schedule or exceeds budget. Develops and delivers presentations to customer management. Integrates specific industry methodologies to appropriate project management solutions.
Functional Responsibility: Possesses a thorough understanding of the process requirements and provide both technical and management oversight of the project. Responsible for customer satisfaction, serves as the single point of contact, compliance with the Statement of Work, project planning and management, resource allocation, and reporting.
Minimum Education: B.S. in Engineering, Mathematics, Computer Science, Operations Research, or applied science.

**Commercial Job Title: Senior Consulting Engineer**
Minimum/General Experience: Has approximately 10 years of experience. Possesses understanding covering the planning, research, development, design, testing, evaluation, production, analysis, and implementation of information systems, programs and equipment. Provides technical assistance to others working on requirements, definition, system requirements analysis, system level design and integration, operations support planning and/or the coordination of the preparation of system development specifications and specialty engineering plans. May be skilled in systems engineering, electrical engineering or industrial
engineering activities.

Functional Responsibility: Provides supervision, person provides technical or scientific and project support for multiple large-scale projects that cross-cut multiple specialization and product development areas. Applies advanced business and/or technical expertise to assist others with defining, analyzing, validating and documenting complex customer operating environments, states of technology and current engineering processes. Provides advanced technical support to others involved in applying specialized knowledge to complex customer processes and requirements. Supports complex technical investigations through advanced research techniques, analysis or development phases of engineering projects. Works with other engineering disciplines in the development and application of processes to improve quality, reliability, cost customer appeal, and satisfaction.

Minimum Education: B.S. in Engineering, Mathematics, Computer Science, Operations Research, or applied science.

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Minimum/General Experience: Has approximately 10 years of experience. Possesses understanding covering the planning, research, development, design, testing, evaluation, production, analysis, and implementation of information systems, programs and equipment. Provides technical assistance to others working on requirements, definition, system requirements analysis, system level design and integration, operations support planning and/or the coordination of the preparation of system development specifications and specialty engineering plans. May be skilled in systems engineering, electrical engineering or industrial engineering activities.

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Commercial Job Title: Senior Information Architect

Minimum/General Experience: Has approximately 7 years of experience with skills covering the planning, research, development, design, testing, evaluation, production, analysis, and implementation of multi-tier network configurations for web enabled applications. Possesses a clear understanding of the interrelationships of firewalls, network devices, and servers and clear knowledge of a specific web enabling technology (i.e. Microsoft or Netscape servers). Possesses experience with database and/or email integration, Internet network design (DMZ, routers, switching) and system administration practices.

Functional Responsibility: Provides supervision, person designs Intranet/Internet/Extranet architectures and develops implementations plans; administration activity; i.e., hardware, security, firewalls. Implements security architecture using LDAP, SSL and firewalls. Installs, configures and maintains all Intranet/Internet/Extranet tools, databases and features; provides support to e-commerce and other systems. Implements server design, development, and operation as well as analyze and develop requirements for 11493 Sunset Hills Rd. | Suite 100 | Reston, VA 20190 | T: 703.871.8500 | 888.66.CARAH | F: 703.871.8505 | www.carahsoft.com
hardware sizing/capacity, data validation, security and integration points to other applications.
Minimum Education: B.S. in Engineering, Mathematics, Computer Science, Operations Research, or applied science

Commercial Job Title: Senior Project Manager
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Functional Responsibility: Provides supervision, person possesses a thorough understanding of the process requirements and provide both technical and management oversight of the project. Responsible for customer satisfaction, serves as the single point of contact, compliance with the Statement of Work, project planning and management, resource allocation, and reporting.
Minimum Education: B.S. in Engineering, Mathematics, Computer Science, Operations Research, or applied science.

<table>
<thead>
<tr>
<th>Labor Categories</th>
<th>August 2021</th>
<th>August 2022</th>
<th>August 2023</th>
<th>August 2024</th>
<th>August 2025</th>
<th>August 2026</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consulting Engineer</td>
<td>$217.67</td>
<td>$222.68</td>
<td>$227.80</td>
<td>$233.04</td>
<td>$238.40</td>
<td></td>
</tr>
<tr>
<td>Information Architect</td>
<td>$212.74</td>
<td>$217.64</td>
<td>$222.64</td>
<td>$227.76</td>
<td>$233.00</td>
<td></td>
</tr>
<tr>
<td>Project Manager</td>
<td>$212.74</td>
<td>$217.64</td>
<td>$222.64</td>
<td>$227.76</td>
<td>$233.00</td>
<td></td>
</tr>
<tr>
<td>Senior Consulting Engineer</td>
<td>$249.99</td>
<td>$255.74</td>
<td>$261.62</td>
<td>$267.64</td>
<td>$273.80</td>
<td></td>
</tr>
<tr>
<td>Senior Information Architect</td>
<td>$272.23</td>
<td>$278.49</td>
<td>$284.89</td>
<td>$291.45</td>
<td>$298.15</td>
<td></td>
</tr>
<tr>
<td>Senior Project Manager</td>
<td>$266.63</td>
<td>$272.76</td>
<td>$279.04</td>
<td>$285.46</td>
<td>$292.02</td>
<td></td>
</tr>
</tbody>
</table>
Attachment I: Authorized Participating Dealers

<table>
<thead>
<tr>
<th>Dealer</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>August Schell Enterprises</td>
<td>All</td>
</tr>
<tr>
<td>CDW</td>
<td>Google</td>
</tr>
<tr>
<td>GovSmart</td>
<td>Markforged</td>
</tr>
<tr>
<td>Hawk Ridge Systems</td>
<td>Markforged</td>
</tr>
<tr>
<td>Intellipeak Solutions</td>
<td>Markforged</td>
</tr>
<tr>
<td>New Tech Solutions</td>
<td>LinkedIn</td>
</tr>
<tr>
<td>SpringML</td>
<td>Google</td>
</tr>
<tr>
<td>Software Information Resource Corp (SIRC)</td>
<td>All</td>
</tr>
<tr>
<td>Source Graphics</td>
<td>Markforged</td>
</tr>
</tbody>
</table>

Attachment II: Contractor Team Arrangements

Schedule Contractors participating in a Contractor Team Arrangement must abide by all terms and conditions of their respective contracts. This includes compliance with Clause 552.238-74, Industrial Funding Fee and Sales Reporting, i.e., each contractor (team member) must report sales and remit the IFF for all products and services provided under its individual contract.

For the complete listing of Contractor Team Arrangements, please contact Carahsoft for details.
Attachment III: Commercial Supplier Agreements

For the complete list of Commercial Supplier Agreements vetted and approved by GSA for inclusion into the GSA Schedule Contract, please see:


Attachment IV: Approved IT Manufacturers

Please reference GSA eLibrary:

https://www.gsaelibrary.gsa.gov/ElibMain/contractorInfo.do?contractNumber=47QSWA18D008F&contractorName=CARAHSOFT+TECHNOLOGY+CORPORATION&executeQuery=YES