DEPARTMENT OF THE NAVY
NAVAL INVENTORY CONTROL POINT
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FAX #
IN REPLY REFER TO:

Ser #986/987
N00104-11-Q-Q597

JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION

1. Identification of the Agency and Contracting Activity:

a. Agency Name: SPAWAR-PHILA
Integrated C2I Engineering Division
700 ROBBINS AVE., BLDG 2A, NAVICP-P
PHILA, PA 19111-5098

b. Contracting Activity: Department of the Navy
Naval Inventory Control Point – Mechanicsburg
ADP Modernization Contract Department
Mechanicsburg, PA 17055-0788

2. Nature/Description of the action:

This justification and approval covers the procurement of General Dynamics Advanced Information Systems (GD-AIS) Enterprise Mission Management Toolkit (eMTK) software maintenance.

3. Description of the supplies/services:

Space and Naval Warfare Systems Center Pacific SSC-PAC Integrated C2I Engineering Division Philadelphia (hereinafter *SPAWAR*) requires the following items to support of NGA-PY, Integrated ***Source*** Management (ISM) operation, in conjunction with the NGA Imagery Exploitation Support System (IESS) Office. This acquisition is in response to a National Security Requirement for hardware and/or software system containing information with a level higher than Top Secret.

The Sole Source item(s) are:
GD-AIS Enterprise Mission Management Toolkit (eMTK) and interrelated Fujitsu Interstage Business Process Management (iBPM) software maintenance.

The estimated total value of this acquisition is . Delivery for this item is requested by 1 April 2011 to support NGA-PY and IESS mission-critical software upgrades, and deployment T&E requirements.

4. Identification of the statutory authority:

Section 4202 of the Clinger-Cohen Act of 1996.

5. Demonstration of contractor's unique qualifications:

General Dynamics Advanced Information Systems (GD-AIS) Enterprise Mission Management Toolkit (eMTK) and unified synergistic iBPM software application provides an end-to-end solution for NGA for the integrated ***Source*** Management Program. The resultant capability provides unique key elements for horizontal and vertical mission functions necessary to achieve flexible and scalable Tasking, Collection, Processing, Exploitation and Dissemination (TCPED) operations. eMTK is an open-source, COTS-based SOA Web 2.0 framework which provides tailorable, net-centric operations that are fully scalable from laptop to full enterprise-level deployments. eMTK provides tailorable workflow and mission management capabilities that that are embedded within NGA Workflow and IMINT Process Management functions and services and are configurable based on the needs of the user. It provides a suite of web services and components that can be tailored to individual NGA-PY customer needs. The GD-AIS product architecture is comprised of Service Oriented Architecture (SOA) *management* building blocks such as ISR Resource, Tasking, Collection, Target, RFI & Requirements, Production & Reporting, Visualization, Multi-INT integration, Research, Information Gap Analysis Collaboration, Workflow and Mission support. Therefore, NGA has the ability to tailor this product to suite variant operational requirements by utilizing the unique features/functions/modularity that are provided as plug-in tools such as exploitation clients, viewers, decision aides, and external adapters (e.g., digital library accessories such as NGA library plug-ins).

As such, the eMTK/iBPM technology base and the accompanying General Dynamic's systems integration and development team are uniquely positioned to help end user agencies and enterprise systems integrators achieve their desired current/future state architectures, via software maintenance support. This product specific maintenance is also a part of the acquisition herein described. This product will provide the capabilities in support of two (2) components within the Information Security Markings (ISM) architecture – Nomination Workflow Tool (NWT) and Requirements Broker (RB). eMTK provides the capabilities for NWT with minimum custom code in support of the ISM Statement of Objectives. eMTK also provides capabilities for the RB component of the architecture with some customization in support of the NISM Statement of Objectives discussed in the National Systems for GeoSpatial Intelligence Core Metadata Profile. When taken in its entirety, eMTK provides a singular solution that is comprised of the following required attributes: modular, flexible and scalable intelligence life-cycle management for the ISR community; secure web-based functions for planning, scheduling and managing tasking, collection, processing, exploitation, dissemination across the NGA enterprise; unified toolset for intelligence managers, analysts, customers and operators for integrated intelligence operations; SOA /net-centric architecture provides extensible application configuration; support for interoperability standards including US Geospatial Information Access Services (GIAS), NATO

Standardization Agreement (STANAG), World Wide Web Consortium (W3C), Open Geographic Information Systems (OpenGIS). eMKT is the only tool that has the capability to support the collective of Imagery Intelligence *Requirements Management*, *Resource Planning*, *Process Management*, *Integrated Content Management* & *User Productivity Tools* in a fully integrated product.

The iBPM segment of the eMTK software set has singular attributes that NGA requires to meet emerge threat area within their AOR. This segment delivers Automated Process Discovery services to NGA users to identify critical paths across established systems and pinpoint where to start with new business process. Further, iBPM's unique set of full APIs (Application Programming Interface) for integration purposes provides the capability to model and simulate workflows processes prior to deployment(s). NGA requires the singular ability to programmatically schedule and plan *resources* for future work, being especially important for provisioning dynamic or ad-hoc collection and production analyst workflows.

The interrelated software, iBPM, is seamlessly integrated and co-hosted to produce the NGA-PY required overall eMTK capability. The unique specific attributes of the iBPM product are the "Sense and Respond" to data changes through continuous process visualization and optimization. Used in conjunction with NGA eMTK application this product can visualize the "as-is" process as it "really-is" using the intrinsic Automated Process Discovery (APD) capability and then iteratively automate and optimize these processes to create more efficient operations. This enables secure hosting of private instances of eMTK "sites" and helps consolidate potentially redundant application infrastructure, reducing the overall cost of ownership. Workflows within eMTK are easily modeled allowing NGA users to create and modify existing workflows, not heretofore achievable without this GD-AIS software set. iBPM, operating in an eMTK environment, is the only product set that provides for NGA personnel to collaborate on mapping out the steps in a mission process and then refining it further by using the advanced process simulation capabilities. This salient feature of this product automatically produces a process diagram that simplifies the communication of requirements to the NGA user teams. One of the key differentiators that are used is around end-to-end process visibility. Automated Process Discovery capabilities help analyze hybrid processes - cases that are a combination of a pre-defined process coupled with steps that are dynamically created. It visualizes an aggregate of cases to show NGA users, for example, the most commonly traversed threat paths, the least commonly traversed threat paths, repeated steps, loopbacks, standard deviation, and other metrics, and lets users hyper-analyze specific cases. Another singular capability is to be able to automatically set thresholds for alerts and notifications based on a historical analysis of process performance, thereby reliving NGA users from performing this task manually.

eMTK, infused with iBPM, is the only COTS product that can support the NGA- I^2L (Imagery Intelligence Lifecycle) and contains the requisite interface to the National Systems for Geospatial-Intelligence (NSG) segments without the need for any modifications, while retaining DCID 6/3 compliance. Flexible deployment options enable NGA organizations to provision services across a wide variety of classified host environments and mission-specific configurations. Resource tasking and brokering functionality allows user to nominate and track resource task orders. An integrated decision aide/brokering tool provides unified management of ISR collection activities.

This product alone provides for effectively control of an important variety of C2 resources and highest-level ISR management systems.

The GD-AIS Enterprise Mission Management Toolkit (eMTK) and iBPM software, in conjunction with existing NGA-PY COTS/GOTS Blade server systems, storage products and certain other key system configuration components are critical to the established NGA performance/schedule targets. These select components are required to provide community products management services to the Intelligence Community including imagery analyst (IA) users and non-intelligence imagery users from assets at selected NGA imagery intelligence production centers, national and local civilian law enforcement facilities, and field operation sites in remote locations around the world in the Area of Responsibility (AOR) for NGA's broad-based user community.

This product has been demonstrated by the manufacturer, in conjunction with the NGA, to meet all functional, performance and interoperability requirements. The combined unique attributes delineated above make this product alone well suited for the critical mission of the NGA IA/GA INTEL community users. This software, with its critical core of key interoperable components/extensions, will be infused into NGA-PY core standardized products list and approved for use by the NGA National Test Organization (NTO), NGA Board and/or certified by the Department of Defense Intelligence Information System (DODIIS) prior to full-scale deployment. Therefore, General Dynamic's eMTK/iBPM products are essential, to the exclusion of other, in fulfilling our mission as the ISEA.

Choosing any other product would negatively impact critical NGA programs development and would adversely affect deployed intelligence personnel by jeopardizing mission systems software development, implementation, integration, target prosecution and national/tactical asset tasking. This standardized product configuration will be certified by the Department of Defense Intelligence Information System (DODIIS) prior to worldwide use across all facets of the NGA making this initial acquisition necessary in order for SPAWAR to fulfill our mission as the ISEA.

6. Governmentwide point of entry notice/potential source:

In accordance with 6.302-1; Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements since this product is deemed to be available only from the original source, General Dynamics Advanced Information Systems, this contract provision and support of the aforementioned highly specialized capability. It is likely that award to any other source would result in unacceptable delays in fulfilling the agency's requirements per 10 U.S.C. 2304(d)(1)(B).

7. Determination of fair and reasonable cost:

Pricing will be compared to recent price history (open market and/or GSA) of same exact units sold and published price lists in making the price reasonableness determination. Due the limited distribution for this highly specialized product(s) additional supporting engineering cost analysis may be required.

8. Description of market survey:

A market survey comparing pricing with GSA, other GWACs, Open Market and previous units sold will be conducted to determine fair market price only.

9. Other facts supporting the use of other than full and open competition:

The product being sought is unclassified, it is to be utilized in an NGA highly specialized, classified intelligence environment. This will limit additional attributes and program-specific applications and operational details from being provided herein.

10. Listing of interested sources:

None

11. Overcoming barriers to Competition:

There are no alternate products that can satisfy this requirement. Future orders will be evaluated to determine whether an alternate solution can be used. As information technology continues to evolve, other solutions may become available for future acquisitions.

TECHNICAL AND REQUIREMENTS CERTIFICATION REQUIRED BY FAR 6.303-1(b)

I certify that the facts and representations under my cognizance which are included in this justification and which form the basis for this justification are complete and accurate.

TECHNICAL/REQUIREMENTS CERTIFICATION:

(Signature) _____ 3/9/11

Name & Title: David Welteroth IESS PM Date
Geospatial Information Engineering Office
Integrated C2I Engineering Division, Philadelphia
Phone: (215)214-8040

CONTRACTING OFFICER CERTIFICATION REQUIRED BY FAR 6.303-2(a)(12)

I certify that this justification is accurate and complete to the best of my knowledge and belief.

(Signature) SETTERS.DAVID.E.1037970685 Digitally signed by SETTERS.DAVID.E.1037970685 DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=USN, cn=SETTERS.DAVID.E.1037970685 Date: 2011.03.17 17:39:55 -04'00'

Name & Title: David Setters Date
NAVICP Contracting Officer
(717) 605-7329

EXAMINED BY COUNSEL AND FOUND TO BE LEGALLY SUFFICIENT

(Signature) N/A

Name & Title: NAVICP – Mechanicsburg Counsel 008 Date
Phone:

COMPETITION ADVOCATE APPROVAL

(Signature) N/A

Name & Title: NAVICP Competition Advocate Date
Phone: