



BROAD AGENCY ANNOUNCEMENT (BAA)

Sense & Respond Logistics Information Mechanism Design & Integration

INTRODUCTION:

This publication constitutes a Broad Agency Announcement (BAA) as contemplated in Federal Acquisition Regulation (FAR) 6.102(d)(2). A formal Request for Proposals (RFP), solicitation, and/or additional information regarding this announcement will not be issued.

The Office of Naval Research (ONR) will not issue paper copies of this announcement. ONR reserves the right to fund all, some or none of the proposals received under this BAA. ONR provides no funding for direct reimbursement of proposal development costs. Technical and cost proposals (or any other material) submitted in response to this BAA will not be returned. It is the policy of ONR to treat all proposals as sensitive, competitive information and to disclose their contents only for the purposes of evaluation.

I. GENERAL INFORMATION

1. Agency Name

Office of Naval Research
Code 331
875 N. Randolph Street
Arlington, VA 22203-1995

2. Research Opportunity Title

Sense & Respond Logistics Information Mechanism Design & Integration

3. Research Opportunity Number

ONR BAA – 08-003

4. Response Date

Full Proposals: 19 DEC 2007

5. Research Opportunity Description

Synopsis

This Broad Agency Announcement (BAA) is seeking proposals for an Information Architecture (Software and Hardware) Design, which will enable logistics modernization for the United States Marine Corps (USMC). This Information architecture will be a core component of the Sense and Respond Logistics (S&RL) ONR Future Naval Capabilities (FNC) Program. We expect that multiple awards will be issued, with a down selection to a single design with the selected performer having the opportunity to develop and demonstrate the Information Architecture as part of the S&RL Program. Inherent in the design will be the capability to integrate / demonstrate multiple components either from existing USMC logistics systems or S&T products developed under separate contract.

Overview

Background

The Sense and Respond Logistics program seeks to enable USMC logistics modernization. S&RL information will then be used by advanced decision support and planning tools to enable enhanced logistics support to the warfighter.

In the global security environment, new threats have emerged that are broader in scope, multi-dimensional, flexible, distributed, information aware, and capable of rapidly adapting to U.S. strategies and tactics. U.S. forces will not fight linear battles, but instead conduct simultaneous – vice sequential – operations in effects-based operations. This has resulted in a mandated shift from U.S. forces fighting from forward stationed bases to forward deployed forces in littoral environments, some arriving directly from the United States.

Operational Maneuver from the Sea (OMFTS) is the Marine Corps' warfare doctrine where all logistics support will come from the sea, rather than from large, land-based supply points.

The “Sea Basing” concept is being planned to enable OMFTS. The Sea Base will consist of ships (or other assets) stationed offshore and in position to sustain amphibious operations ashore. Sea Based Logistics will be focused to arrive where and when needed, without a large footprint requiring significant protection, and will support sustained maneuver in an expanded battlespace.

Distributed Operations relies on small units operating semi-independently to achieve effects based operations. This new operational concept requires a logistics system with the same characteristics as the tactical forces: speed, maneuver in depth, adaptability, agility, flexibility, and battlespace situational awareness.

The historical mass-based approach to satisfy operational needs meant that sustainment was measured in Days of Supply (DOS), resulting in the generation of iron-mountains of equipment, commodities, and supply items. Mass may still continue to work where demand is predictable or stable and the security situation allows the build-up of extensive logistics and support bases. Just-in-Time logistics was an attempt to apply commercial business practices to reduce the size of the inventory and make military logistics more efficient. While just-in-time may work well in a commercial market place, it has not proven optimal for military operations.

Sense and Respond Logistics (S&RL) - The Concept

S&RL, or more broadly sense and respond combat support, is envisioned as an approach that yields adaptive, responsive demand and support networks that operate in alternate structures that recognize operational context and coordination. It accommodates the critical elements of high

rates of change, closely coupled events, speed of command, and self-synchronization. In simple terms, S&RL capabilities involve predicting what will be needed and responding quickly to both anticipated and unanticipated needs to maintain combat effectiveness. The Tenets of Sense and Respond Logistics include:

- Demand can be unpredictable, so success depends on speed of pattern recognition and speed of response
- The best chain is no longer one that is highly optimized, but one that is highly flexible.
- Units & subunits should be organized into “modular capabilities” that negotiate with one another over commitments
- Networks “self-synchronize” via a common environment and set of shared objectives
- Use Information Technology (IT) for data sharing, “knowing earlier”, commitment tracking and role reconfiguration.

The inventory of theater-wide sustainment will be continuously updated to support a dynamic distribution system empowered by automated logistics decision support systems. Logistics will be provided to the warfighter as needed from the seabase by leveraging theater stocks, tracking and shifting assets even while en route, delivering tailored logistics sustainment packages with minimum development of rear areas, dumps and marshalling areas ashore.

S&RL will rely upon highly adaptive, self-synchronizing, and dynamic physical and functional processes. It predicts, anticipates, and coordinates actions that provide competitive advantage spanning the full range of military operations across the strategic, operational, and tactical levels of war. S&RL provides this capability by providing to the Operational Commander an increased range of support options that are synchronized with the operational effects.

The S&RL concept is built upon characterizing and anticipating support problems, early identification of potential constraints, and rapid response to changes in operational tasks and reprioritization. S&RL shall enable commanders to think ahead, identify when a plan is going awry, and help develop alternatives “ahead of real time.” S&RL interleaves commander’s intent and anticipatory planning with adaptive execution by automatically sensing logistics needs, creating logistics courses of action (options) and concepts of support, evaluating the options, developing alternatives, and evaluating the impact of decisions on other parts of the plan. This will occur in an asynchronous fashion using proactive analysis to help predict which possible futures are becoming more likely – before they occur.

Sense and Respond Logistics (S&RL) - The FNC Program

The overall implementation of S&RL will consist of:

- Dynamic and real time networked sensor data and information from assets in the battlefield
- An Information Architecture that will acquire, parse, process, store, transmit and present the information – Shared Data Environment
- Predictive and adaptive Logistics Decision Support and Planning tools to be used to generate Courses of Support (CoS) and Courses of Action (CoA)

The program goal is to develop and demonstrate a flexible, distributed ‘systems of systems’ networked architecture - both hardware and software - capable of providing measurable advances in logistics Planning, Decision, Execution, and Assessment (PDE&A) functions.

The following are the main Products Areas for the S&RL program. These products are listed to provide potential offerors insight into the scope of the overall S&RL program focus areas and technical efforts needed to address them for this solicitation. The products should transition into Programs of Record (PORs) such as Global Combat Support System – Marine Corps (GCSS-MC) or Autonomic Logistics (AL) baseline in technology spirals for early transition.

Intelligent Sensor Systems – Complex data sensors operating on scavenged power that are network addressable. They will be part of a mesh network infrastructure, monitoring equipment health, operating status, location, and state to the Line Repacable Unit level. Included are smart sensor and signal processing algorithms for a variety of sensors capable of maximizing knowledge extraction at the point of collection and minimizing the bandwidth needed to propagate information (knowledge would be forwarded if deemed useful by the processing algorithm).

Intelligence Agent Technologies – Enable the capability to accurately assess platform health, usage, and remaining useful life for disparate equipment/system types. Provide component level, system level, platform level, and enterprise level prognostics models that function in an open, distributed network environment. Consist of agents that generate ontologies based on correlation between unit tactical compositions, mission requirements and logistic resources required to sustain operational tempo. Demonstrate emergent behaviors are quantified and leveraged in an adaptive environment.

Predictive and Adaptive Fuels Management Tool – Provide planning and decision support tools to improve battlefield fuel management (options generator for dynamic allocation, automated status and location, platform consumption forecasting, rate of usage).

Decision Support Tools – Provide the capability for performing predictive planning, adaptive analysis of evolving environments, real time dynamic updates, data analysis and courses of action development based on Commander's intent. Provide automated tasking and assessment tools for accurately determining measures of effectiveness.

BAA Opportunity for S&RL Information Architecture

This BAA sets forth the work effort required to conceptualize, design, develop, integrate, and demonstrate an S&RL Information Architecture. It is the 'glue' in the S&RL 'systems of systems' construct which will encapsulate technologies in the Product Areas.

Under the Product Areas many efforts will be undertaken in developmental Science and Technology (S&T) products, such as advanced sensors, networks, and software components that provide cognitive functions for decision support and planning tools. These components will be not awarded under this BAA, but under separate solicitations. The Information Architecture will be required to integrate and demonstrate with the S&T products and existing USMC logistics systems. Therefore one key evaluation criterion will be the method, viability and cost of external systems integration.

Information Architecture Characteristics:

- Shared Data Environment
- Open Architecture based
- Modular
- Flexible
- Scalable
- Reliable
- Accurate
- Adaptive
- Collaborative

- Secure
- Affordable

Information Architecture will support:

- Multiple data types and sources
- Real time and non-real time data
- Mixed timescales
- Expert environments
- Multiple applications independently and simultaneously
- Advanced data management
- Dynamic system updates
- Customized rule-based processes for information fusing from multiple domains
- Backwards compatibility with legacy USMC logistics systems
- Future system upgrades and components

Significant Information Architecture Transition Considerations :

- Interoperability with:
 - Marine Air-Ground Task Force Command and Control (MAGTF C2) Framework
 - Global Combat Support System – Marine Corps (GCSS-MC) Program
 - USMC Autonomic Logistics Program
- Connectivity to:
 - Tier I Common Operating Picture
 - Tier II Battlespace Functional Area (BFA) Management Applications
- Adherence to:
 - DOD Information Assurance policies and directives.
 - DOD Net-Centric Data Strategy
 - DOD data standards and formats

Required Functions for Information Architecture :

- **Data/Information Acquisition**
Facilitate the acquisition of data/information from sensor and information networks developed or incorporated under separate activities within S&RL. It is anticipated that the information sources will be sensors and information systems that include, but are not limited to, systems aboard USMC vehicles for vehicle status and health, fuel systems such as containers and distribution devices, and ammunition quantities and expenditures aboard vehicles and weapons. The intent of the Information Architecture is to be adaptable and scalable to additional information sources that would emerge during transition and product life cycle.
- **Information Storage and Distribution**
Provide storage and distribution of acquired information according to the business rules derived from USMC MAGTF C2 doctrine. It is anticipated that this would span from the individual warfighter to CONUS, with specific focus in S&RL on the warfighter to the ashore headquarters command and to the Seabase. It is anticipated that the existing USMC IT systems would be leveraged as much as possible.
- **Information Fusion**
Enable within the architecture cognitive functions. It is anticipated that intelligent agent based approaches would be utilized, some developed under separate activities within S&RL, to provide context to the data/information according to the USMC MAGTF C2 business rules. Sets of disparate information would be compiled, contextualized, infused with commanders intent, and presented to operations and logistics decision makers for awareness and action.
- **Decision Support Tools**
Enable software constructs and capabilities, some developed under separate activities within S&RL, that provide demand options, recommend logistics Courses of Support (CoSs) and

recommend operations Courses of Action (CoAs). This will be according to the USMC MAGTF C2 business rules.

The S&RL FNC program will provide an information package that will contain the USMC MAGTF doctrine and associated background material as guidance. A series of S&RL program Use Cases will also be provided to illustrate intent, process and transactions that are within the scope of what the S&RL program will develop to be demonstrated. The primary transition program for the S&RL products, including the Information Architecture, is the USMC Autonomic Logistics (AL) program. AL program information will be provided as well.

S&RL Information Architecture Program Plan

The Office of Naval Research (ONR 33) envisions a three-phase, down-select, IDIQ task orders approach for developing the S&RL network architecture.

Phase I: Design

The first phase is anticipated to be the design phase for the overall Information Architecture system design - which includes the capability for integration with logistics applications (technologies). Phase I is anticipated to last for 9 months and is valued at \$3,000,000. Selected performer(s) shall provide a detailed design briefing, presentation, and architecture at the conclusion of Phase I. A preliminary Business Case - Life Cycle Cost analysis should also be provided.

Phase II: Prototyping

The selected performer(s) will develop the S&RL prototype system based on the approved design in Phase I. During this phase, the selected performer(s) may be required, as the systems integrator, to work with the other S&T product teams to ensure that the overall S&RL prototype results in an effectively integrated system. Phase II is anticipated to last for 33-36 months and be valued at \$3,000,000. The selected performer(s) shall be required to provide a bench top demonstration of the integrated design.

Phase III: Demonstration

Upon review of the results from Phase II, the Government may decide to award Phase III, the interoperability demonstration phase. The selected performer(s) shall integrate and demonstrate the capabilities of the S&RL system in other MAGTF systems in an operationally relevant environment. It is anticipated that Phase III would have a period of performance between 12-15 months and be valued at \$1,000,000.

Down-Select Information

The Government requires cost proposals for all three phases under this solicitation. Updated cost proposals for Phases II and III will be required as deliverables for the initial Phase I task orders and Phase II task orders, respectively.

A task order solicitation for Phase II (Task Order 0002) and Phase III (Task Order 0003) will likely not be issued since Phase II and III "proposals" will be required deliverables from Task Order 0001 and Task Order 0002, respectively. Fair opportunity in this down-selection process for Phase II and Phase III will be provided to all IDIQ contract holders based on an evaluation of the most promising design produced from the Phase I (Task Order 0001) awards. The Government intends to down-select to one Phase II contractor under this program, but reserves the right to award a Phase II effort (in its totality or partially) to some, all, or none of the Phase I awardees resulting from this BAA. If more than one Phase II effort is awarded, it is the Government's intention to down-select to one

Phase III contractor, but reserves the right to award a Phase III (in its totality or partially) to some, all, or none of the Phase II awardees. Upon completion of Phase I and receipt of all applicable deliverables, the Contracting Officer will use his best judgment to decide which Contractor represents the best value to the Government in the future competitions for this Phase II and Phase III down-selection.

6. Points of Contact

Questions regarding this BAA must be provided to the Science and Technology Point of Contact and/or Business Point of Contact listed in this BAA.

Important Notices Regarding Questions

- All questions shall be submitted in writing by electronic mail.
- Questions and responses will be posted on the ONR web site at www.onr.navy.mil (no email responses will be provided).
- Questions presented by telephone call, fax message, or other means will not be responded to.
- There will be no meetings between potential offerors and ONR personnel.

Questions of a technical nature shall be directed to the cognizant Technical Point of Contact, as specified below:

Technical Point of Contact:

Mr. Anthony J. Seman III
Office of Naval Research, ONR 331
One Liberty Center
875 N. Randolph Street Suite 1425
Arlington, VA 22203-1995
Email Address: anthony.seman@navy.mil

Questions of a business nature shall be directed to the cognizant Business Point of Contact, as Specified below:

Business Point of Contact:

Mr. Matthew L. Ferebee
Contract Specialist
875 N. Randolph Street, ONR 0254
Arlington, VA 22203-1995
Telephone Number: (703) 696-1474
Email Address: matthew.ferebee@navy.mil

7. Instrument Types

ONR anticipates that applied research (6.2) and advanced technology development (6.3) funding will be available to make awards. It is anticipated that ONR will award one or more Cost Type Multiple Award Indefinite Delivery Indefinite Quantity (IDIQ) Task Order contracts for this effort. Phases I, II, and III will be set up as separate task orders under the IDIQ contracts.

8. Catalog of Federal Domestic Assistance (CFDA) Numbers

12.300

9. Catalog of Federal Domestic Assistance (CFDA) Titles

II. AWARD INFORMATION

Total amount of funding expected to be available: ~\$7M (\$3M for Phase I, \$3M for Phase II, and \$1M for Phase III)

Period of Performance: Up to 60 Months

Anticipated number of awards: 3 – 4 for Phase I with downselect for Phase II and Phase III

Proposals that build on current or previous DoD work are encouraged. Offerors enhancing work performed under other ONR or DoD projects must clearly identify the point of departure, what existing work will be brought forward, and what new work will be performed under this BAA.

Depending on the results of the proposal evaluation, there is no guarantee that any of proposals submitted will be recommended for funding.

III. ELIGIBILITY INFORMATION

Only U.S.-owned or U.S.-based firms will be considered for awards under this solicitation. Only United States citizens and foreign citizens who are lawful permanent residents of the United States are permitted to work on this effort due to export control restrictions (see the International Traffic in Arms Regulations (ITAR) at 22CFR §§ 120-130). The Sense and Respond Logistics program will encompass and process across many information domains within the USMC logistics systems and communities. This information has both strategic and tactical value to USMC operations, and as such, this program is restricted to U.S.-owned and U.S.-based firms.

Federally Funded Research & Development Centers (FFRDCs), including Department of Energy National Laboratories, are not eligible to receive awards under this BAA. However, teaming arrangements between FFRDCs and eligible principal bidders are allowed so long as they are permitted under the sponsoring agreement between the Government and the specific FFRDC.

Navy laboratories and warfare centers as well as other Department of Defense and civilian agency laboratories are not eligible to receive contract awards from another Federal organization and therefore should not directly submit full proposals in anticipation of an award under this BAA. If any such organization is interested in the programs described herein, however, the organization should directly contact the appropriate ONR Scientific Division POC to discuss its area of interest and to solicit funding for specific technology. The various scientific divisions of ONR are identified at <http://www.onr.navy.mil/>. As with FFRDCs, federal organizations may team with other responsible sources from academia and/or industry that are submitting proposals under this BAA.

Independent organizations and teams are encouraged to submit. However, offerors must be willing to cooperate and exchange software, data and other information in an integrated program with other contractors, as well as with system integrators selected by ONR.

IV. APPLICATION AND SUBMISSION INFORMATION

1. Application and Submission Process

Industry Day Briefing – ONR will conduct an Industry Day Briefing for potential offerors. It is scheduled for 27 November 2007 at the Alfred M. Gray Research Center located in Quantico, Virginia. The purpose of the briefing is to provide potential offerors with a better understanding of the program.

Registration: Interested offerors **MUST** register for the Industry Day Briefing at the ONR event website; <http://www.onr.navy.mil/about/events/regdetail.asp?cid=373&code=4>. The deadline to register is two days PRIOR to the event. No substitutions in the attendee list are allowed after the registration deadline.

Not Able to Attend: Those not able to attend this briefing should consult the ONR website (www.onr.navy.mil) to see briefing slides and answers to written questions submitted during the event.

Full Proposals - The due date for receipt of Full Proposals is 2 p.m. (Eastern Time) on 19 December 2007. It is anticipated that final selections will be made by 25 January 2008. Proposals received after the published due date and time will not be considered. As soon as the final proposal evaluation process is completed, each offeror will be notified via email of its selection or non-selection for an award. Proposals exceeding the page limit may not be evaluated.

NOTE: PROPOSALS SENT BY FAX OR E-MAIL WILL NOT BE CONSIDERED.

2. Content and Format of Full Proposals

Full Proposals submitted under the BAA are expected to be unclassified; however, if an offeror believes they have a need to submit a classified proposal, please contact the appropriate Technical POC.

Unclassified proposals shall be submitted directly to the Business POC identified in Section I, paragraph 6, of this BAA.

Proposal submissions will be protected from unauthorized disclosure in accordance with FAR Subpart 15.207, applicable law, and DoD/DoN regulations. Offerors are expected to appropriately mark each page of their submission that contains proprietary information. The proposal shall include a severable, self-standing Statement of Work, which contains only unclassified information and does not include any proprietary restrictions.

IMPORTANT NOTE: Titles given to the Full Proposals should be descriptive of the work they cover and not be merely a copy of the title of this solicitation.

Full Proposal Format – Volume 1 - Technical and Volume 2 - Cost Proposal

- Paper Size – 8.5 x 11 inch paper
- Margins – 1” inch
- Spacing – single or double-spaced
- Font – Times New Roman, 12 point
- Number of Pages – Volume 1 is limited to no more than 25 pages. Volume 2 has no page limitations. Limitations within sections of the Technical Proposal are indicated in the individual descriptions shown below. The cover page, table of contents, and resumes are excluded from the page limitations. Full Proposals exceeding the page limit may not be evaluated.
- Copies – one (1) original, 4 copies and one electronic copy on a CD-ROM (in Microsoft® Word or Excel 97 compatible or .PDF format).

FULL PROPOSAL CONTENT

VOLUME 1: Technical Proposal:

Volume 1 of the full proposal shall include the following sections, each starting on a new page. If less than the maximum number of pages is used for one section, the balance may NOT be added to another section. Sections not included in the page limitation are noted below.

- **Cover Page:** *(Not included in page limitations)* The Cover Page shall be labeled "TECHNICAL PROPOSAL" and shall include the BAA Number, title of proposal, prime contractor and complete list of subcontractors (if applicable), technical and administrative/business points of contact (name, address, phone/fax, & e-mail address), and the duration of effort and total proposed cost by Government fiscal year. The cover page shall be signed by an authorized officer.
- **Table of Contents** *(Not included in page limitations)* This should address the contents of the proposal only, generally by section.
- **Executive Summary:** *(Two (2) page maximum)* A brief summarization of the proposal including the primary areas described below. Emphasis is on the Science and Technology in support of Sense & Respond Logistics, Spiral Development, integration, transition, and their relationship to other current programs. Finally, provide a brief statement regarding why your organization would provide the best value to the government for the particular project.
- **Statement of Work:** *(Five (5) pages maximum)* A Statement of Work (SOW) clearly detailing the scope and objectives of the effort and the technical approach. It is anticipated that the proposed SOW will be incorporated as an attachment to the resultant award instrument. To this end, proposals must include a severable, self-standing SOW "**without any proprietary restrictions**", which can be included as an attachment to any resultant contract. When the Phases are addressed, the SOW must clearly separate the tasks required for each phase. Similarly, the SOW must include a section listing all the deliverables such as hardware, software, source code, executable code, pseudo code, etc, along with the reporting requirements.
- **Project Schedule and Milestones:** *(One (1) page maximum)* A summary of the schedule of events and milestones, with demonstration milestones clearly indicated.
- **Assertion of Data Rights and/or Rights in Computer Software:** *(One (1) page maximum)* An Offeror may provide with its proposal assertions to restrict use, release or disclosure of specific data and/or computer software that will be provided in the course of contract performance. The rules governing these assertions are prescribed in Defense Federal Acquisition Regulation Supplement (DFARS) clauses 252.227-7013, -7014 and -7017. These clauses may be accessed at the following web address: <http://farsite.hill.af.mil/VDFDARA.HTM/>

The Government may challenge assertions that are provided in improper format or that do not properly acknowledge earlier federal funding of related research by the Offeror.

- **Deliverables:** *(Two (2) pages maximum)* A detailed description of the results and items to be delivered, including demonstration articles inclusive of the timeframe in which they are to be delivered. Reports and technical items resulting from meetings shall be listed as deliverables.
- **Management Approach Plan:** *(Three (3) pages maximum)* A discussion of the overall approach to the management of this effort, including brief discussions of the total

organization; use of personnel; project/function/subcontractor relationships; government research interfaces; and planning, scheduling and control practices. Identify which personnel and subcontractors (if any) will be involved. Include a description of the facilities that are required for the proposed effort with a description of any Government Furnished Equipment/Hardware/Software/Information required. The management plan should show the significant milestones of the technology development process. It should include obligation to provide reporting and support meetings.

- **Technical Approach:** (Ten (10) pages maximum) The offeror shall provide a detailed plan that coherently describes the technical approach proposed for contract performance, which demonstrates a technical understanding of the proposed Statement of Work (SOW). The technical approach should address each of the numbered task areas delineated in the proposed SOW providing specific or unique techniques to be employed and anything else the offeror considers relevant in performing the proposed SOW. The technical approach should indicate how the work will be performed, including the capabilities and resources which will be applied, what problem areas exist, the proposed solutions and a full explanation of the proposed disciplines, procedures and techniques to be followed. Emphasis should be placed upon the extent that the offeror's technical approach ensures timely delivery and successful completion of the tasks outlined by the proposed SOW submission.
- **Personnel:** (*Not included in page limitations*) The offeror shall provide resumes of proposed key personnel to be utilized by the contractor/subcontractor in the performance of this contract. The offeror shall ensure that the proposed personnel are fully capable of performing in an efficient, reliable and professional manner.
- **Past Performance:** (One (1) page maximum) Past performance will consist of a description of the offeror's Government contracts (both prime and major subcontracts (i.e., those involving 25% or more of the effort)) received during the past three (3) years), which are similar to the effort being proposed. The offeror may describe any quality awards or certificates that indicate the offeror possesses a high quality process for providing desired research and development outcomes.

VOLUME 2: Cost Proposal:

NOTE: Potential offerors only need to submit a Phase I cost proposal by 19 DEC 2007; if selected for award then offerors will submit cost proposals for Phase II upon completion of Phase I. If selected for a Phase II award, then offerors will submit a cost proposal for Phase III upon completion of Phase II.

The cost proposal shall consist of a cover page and two parts, Parts 1 and 2. Part 1 will provide a detailed cost breakdown of all costs by cost category and by offeror fiscal, and Part 2 will provide a cost breakdown by task/sub-task using the same task numbers in the proposed Statement of Work and be broken out using Government Fiscal Year (Oct. 1 – Sep. 30). There is no page limitation on the cost proposal.

Although not required and provided for informational purposes only, detailed instructions entitled "Instructions for Preparing Cost Proposals for Contracts and Agreements", including a sample template for preparing costs proposals for contracts, may be found at ONR's website listed under the 'Acquisition Department – Contracts & Grants Submitting a Proposal' link at: http://www.onr.navy.mil/02/how_to.asp

Cover Page: The words "COST PROPOSAL" should appear on the cover page in addition to the following information (the use of SF 1411 is optional):

- BAA Number

- Title of Proposal
- Identity of Prime Offeror and Complete List of Subcontractors/Sub-Recipients (if applicable)
- Technical Point of Contact (name, address, phone/fax, E-mail address) and administrative/business Point of Contact (name, address, phone/fax, E-Mail address)
- Duration of Effort (differentiate among the three phases)
- Summary Statement of Proposed Costs; and
- Cognizant DCAA and DCMA Points of Contact, Address, Phone/Fax, E-mail address (if readily available)

Part 1: Detailed breakdown of costs by cost category by offeror's calendar/fiscal year.

- Direct Labor – Individual labor categories or person with associated labor hours and unburdened direct labor rates;
- Indirect Costs – Fringe Benefits, Overhead, G&A, COM, etc. (must show base amount and rate);
- Proposed Contractor-Acquired Equipment – Equipment generally must be furnished by the contractor/recipient. Justifications must be provided when Government funding for such items is sought. An explanation of any estimating factors, including their derivation and application, shall be provided. Where possible, indicate purchasing method (competition, price comparison, market review, etc...)
- Travel – Number of trips, destinations, durations, etc
- Subcontracts – A cost proposal as detailed as the Offeror's cost proposal will be required to be submitted by the subcontractor. The subcontractor's cost proposal can be provided in a sealed envelope with the Offeror's cost proposal or will be obtained from the subcontractor prior to negotiation;
- Consultant – Provide consultant agreement or other documentation which verifies the proposed loaded daily/hourly rate;
- Materials – Specifically itemized with costs or estimated costs. An explanation of any estimating factors, including their derivation and application, shall be provided. Include a brief description of the Offeror's procurement method to be used (competition, engineering estimate, market survey, etc.)
- Other Direct Costs – Particularly any proposed items of equipment or facilities. Equipment and facilities generally must be furnished by the contractor/recipient (justifications must be provided when Government funding for such items is sought). Include a brief description of the Offeror's procurement method to be used (competition, engineering estimate, market survey, etc.)
- Proposed Fee/Profit, including fee percentage.

Part 2: Cost breakdown by task/sub-task and Government Fiscal Year corresponding to the same task numbers in the proposed Statement of Work.

2. Significant Dates and Times -

Anticipated Schedule of Events *		
Event	Date (MM/DD/YEAR)	Time (EDT)
Industry Day (Quantico, VA)	11/27/2007	8:30 A.M.
Full Proposals Due Date	12/19/2007	2 P.M.
Notification of Selection for Award	01/25/2008*	_____
Contract Award	04/25/2008*	_____

***These dates are estimates as of the date of this announcement.**

3. Submission of Late Proposals -

Contracts: In accordance with FAR Subpart 15.208 any proposal, modification, or revision, that is received at the designated Government office after the exact time specified for receipt of proposals is "late" and will not be considered unless it is received before award is made, the contracting officer determines that accepting the late proposal would not unduly delay the acquisition and

- a) If it was transmitted through an electronic commerce method authorized by the announcement, it was received at the initial point of entry to the Government infrastructure not later than 5:00 p.m. one working day prior to the date specified for receipt of proposals; or
- b) There is acceptable evidence to establish that it was received at the Government installation designated for receipt of proposals and was under the Government's control prior to the time set for receipt of proposals; or
- c) It was the only proposal received.

However, a late modification of an otherwise timely and successful proposal, which makes its terms more favorable to the Government, will be considered at any time it is received and may be accepted.

Acceptable evidence to establish the time or receipt at the Government installation includes the time/date stamp of that installation on the proposal wrapper, other documentary evidence of receipt maintained by the installation, or oral testimony or statements of Government personnel.

If an emergency or unanticipated event interrupts normal Government processes so that proposals cannot be received at the Government office designated for receipt of proposals by the exact time specified in the announcement, and urgent Government requirements preclude amendment of the announcement closing date, the time specified for receipt of proposals will be deemed to be extend to the same time of day specified in the announcement on the first work day on which normal Government processes resume.

The contracting officer must promptly notify any offeror if its proposal, modifications, or revision was received late and must inform the offeror whether its proposal will be considered.

5. Address for the Submission of Full Proposals -

Office of Naval Research,
Attn: Matt Ferebee, Code 0254

875 N. Randolph Street
Arlington, VA 22203-1995
Telephone Number: (703) 696-1474

NOTE: PROPOSALS SENT BY FAX OR E-MAIL WILL NOT BE CONSIDERED.

NOTE: Due to changes in security procedures since September 11, 2001, the time required for hard-copy written materials to be received at the Office of Naval Research has increased. Thus it is recommended that any hard-copy proposal be mailed several additional days before the deadline established in the solicitation so that it will not be received late and thus be ineligible for award consideration.

V. EVALUATION INFORMATION

1. Evaluation Criteria

The Office of Naval Research plans to make one or more awards depending on their value to the Government in accordance with the evaluation criteria listed below. Proposals will be selected through a technical/scientific/cost decision process with technical and scientific considerations being significantly more important. Even though cost is of less importance than the technical factors combined, it will not be ignored. The degree of its importance will increase with the degree of equality of the proposals in relation to the other factors on which selection is to be based, or when the cost is so significantly high as to diminish the value of the technical superiority to the Government. The technical factors A through D are listed in descending order of importance. The sub-criteria, i.e., the "numbered" items within each of the lettered paragraphs, are of equal importance.

- A. Overall scientific and technical merits of the proposal
 - 1. The degree of innovation.
 - 2. The soundness of technical concept.
 - 3. The offeror's awareness of the state of the art and understanding of the scope of the problem and the technical effort needed to address it.
 - 4. The extent to which the Government will have unlimited intellectual property rights, or at least Government purpose intellectual property rights to the deliverables received. If the proposal includes proprietary restrictions on Government's use of deliverables, the proposal shall show how components with restricted intellectual property rights can be integrated into a Service Oriented Architecture.
 - 5. The scalability of the technical concept.
- B. Naval relevance, anticipated contributions of the proposed technology to Sense & Respond Logistics and transition potential (to the extent possible).
- C. Offeror's capabilities, related experience, and past performance, including the qualifications, capabilities and experience of the proposed principal personnel.
 - 1. The quality of technical personnel proposed is consistent with the work proposed.
 - 2. The offeror's experience in relevant efforts with similar resources.
 - 3. The ability to manage the proposed effort.

4. The offeror's experience with technology transfer.
- D. Management Approach Plan. A Management Approach Plan is required and will be evaluated in accordance with the following criteria:
1. Realistic plan in milestone format with succinct factual description of how achievement of milestones will be managed.
 2. Relationship between cost and milestone achievement is defined.
 3. Estimate of technical, schedule and cost risk is stated with risk management plan provided.
- E. The Realism of the Proposed Cost.
1. Total proposed project amount relative to benefit.
 2. Realism of total proposed cost.

Socio-Economic Merits – For proposed awards to be made as contracts to large businesses, the socio-economic merits of each proposal will be evaluated based on the extent of the Offeror's commitment in providing meaningful subcontracting opportunities for small businesses, small disadvantaged businesses, woman-owned small businesses, HUBZone small businesses, veteran-owned small businesses, service disabled veteran-owned small businesses, historically black colleges and universities, and minority institutions.

Industry-Academia Partnering – ONR highly encourages partnering between industry and academia with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize industry-academic partnering which enhances the development of novel S&T advances will be given favorable consideration.

Industry-Government Partnering - ONR highly encourages partnering among Industry and Government with a view toward speeding the incorporation of new science and technology into fielded systems. Proposals that utilize Industry-Government partnering which result in enhancements of novel S&T, will be given favorable consideration. Government agencies/laboratories cannot be the prime contractor. Offerors proposing to partner with Government Laboratories or Federally Funded Research and Development Centers (FFRDCs) should provide the "partnering proposal" from the Government or FFRDC entity with its proposal. However these partnering proposals must be severable from the Industry or Academia main proposal since ONR will fund these partnering proposals directly. As such, Industry/Academia cost proposals should not include any direct costs or pass-through fees (indirect costs or fixed fee) associated with the partnering proposal from the Government Laboratory or FFRDC.

Evaluation of Phases: The Government will evaluate for award purposes by adding the total cost for all phases. The evaluation of options by phases will not obligate the Government to exercise the option(s).

2. Evaluation Information

Government technical experts from the Office of Naval Research and other Federal entities will perform the evaluation of proposals. The Government may use selected non-government personnel or support contractor personnel to assist in the evaluation and administrative functions of any proposals ensuing from this solicitation. Such non-government personnel will be bound by appropriate non-disclosure agreements to protect proprietary and source-selection information.

VI. AWARD ADMINISTRATION INFORMATION

1. Additional Requirements

- The North American Industry Classification System (NAICS) code – The North American Industry Classification System (NAICS) code for this announcement is 541710 with a small business size standard of 500.
- CCR - Successful offerors not already registered in the Central Contractor Registry (CCR) will be required to register in CCR prior to award of any grant, contract, cooperative agreement, or other transaction agreement. Information on CCR registration is available at <http://www.onr.navy.mil/02/ccr.htm>.
- Certifications – In accordance with FAR 4.1201, prospective contractors shall complete and submit electronic annual representations and certifications at <http://orca.bpn.gov>. In addition, the Online Representations and Certifications Application (ORCA) must be supplemented by DFARS which are contract specific representations and certifications. Proposals should be accompanied by a completed certification package which may be accessed on the ONR Home Page at Contracts & Grants entitled, "Representations and Certifications for Contracts" at http://www.onr.navy.mil/02/rep_cert.asp.
- Subcontracting Plans - Successful contract proposals that exceed \$550,000.00, submitted by all but small business concerns, will be required to submit a Small Business Subcontracting Plan in accordance with FAR 52.219-9, prior to award. This requirement also applies to non-profits, including educational institutions.
- This acquisition potentially involves data that is subject to export control laws and regulations. The following clause will be incorporated into any resultant contract: NAVAIR 5252.227-9507 NOTICE REGARDING THE DISSEMINATION OF EXPORT CONTROLLED TECHNICAL DATA (JAN 1992)
 - a) Export of information contained herein, which includes release to foreign nationals within the United States, without first obtaining approval or license from the Department of State for items controlled by the International Traffic in Arms Regulations (ITAR), or the Department of Commerce for items controlled by the Export Administration Regulations (EAR), may constitute a violation of law.
 - b) For violation of export laws, the contractor, its employees, officials or agents are subject to:
 - Imprisonment and/or imposition of criminal fines; and
 - Suspension or debarment from future Government contracting actions.
 - c) The Government shall not be liable for any use or misuse of the information, technical data or specifications in this contract. It shall not be liable for any patent infringement or contributory patent infringement. The Government neither warrants the adequacy nor the completeness of the information, technical data or specifications in this contract.
 - d) The contractor shall include the provisions of paragraphs (a) through (c) above in any subcontracts awarded under this contract.
- Offerors should state that their proposals will be valid for 180 days from submission.

2. Deliverables/Reports

The following is a sample of deliverables that could be required under this solicitation:

- Software
- Software source codes
- Software executable codes
- Application Programming Interface (API)
- User manuals
- Software functional description document
- Software configuration description
- Software installation manuals
- Executable or binaries complete with software libraries
- Execution plan
- Technical Progress reports at regular time intervals (monthly or quarterly, but not both) as specified in the award document, including detailed technical data, algorithms, software (source code, executable code, pseudo code, etc. cross referenced to the applicable deliverable.)
- Financial progress reports at regular time intervals as specified in the award document.
- Presentation Material(s)
- Other Documentation or Reports
- Final Technical Report
- Phase II and Phase III updated cost proposals
- Producibility Analysis
- Preliminary Life Cycle Cost Analysis
- Business Case (Return on Investment) Analysis

However please note that specific deliverables (that may include software and hardware deliverables) should be proposed by each Offeror and finalized during negotiations.

VII. OTHER INFORMATION

1. Project Meetings & Reviews

Program status reviews may also be held to provide a forum for reviews of the latest results from experiments and any other incremental progress towards the major demonstrations. These meetings may be held at various sites throughout the country. For costing purposes, Offerors

should assume that 40% of these meetings will be at or near ONR, Arlington VA and 60% at other contractor or government facilities. Interim meetings are likely, but these will be accomplished via video telephone conferences, telephone conferences, or via web-based collaboration tools.

2. Government Property/Government Furnished Equipment (GFE) and Facilities

Each proposer must provide a very specific description of any equipment/hardware that it needs to acquire to perform the work. This description should indicate whether or not each particular piece of equipment/hardware will be included as part of a deliverable item under the resulting award. Also, this description should identify the component, nomenclature, and configuration of the equipment/hardware that it proposes to purchase for this effort. It is the Government's desire to have the contractor's purchase the equipment/hardware for deliverable items under their contract. The purchase on a direct reimbursement basis of special test equipment or other equipment that is not included in a deliverable item will be evaluated for allowability on a case-by-case basis. Maximum use of Government integration, test, and experiment facilities is encouraged in each of the Offeror's proposals.

Government research facilities and operational military units are available and should be considered as potential government furnished equipment/facilities. These facilities and resources, such as satellite transmission time, use of vehicles, ships, or aircraft in demonstration, or use of Naval laboratory or test facilities, are of high value and some are in constant demand by multiple programs. It is unlikely that all facilities would be used for this topic. The use of these facilities and resources will be negotiated as the program unfolds. Offerors should explain which of these facilities they recommend and why they are critical for the project's success.

3. Security Classification

In order to facilitate intra-program collaboration and technology transfer, the Government will attempt to enable technology developers to work at the unclassified level to the maximum extent possible. If access to classified material will be required at any point during performance, the Offeror must clearly identify such need prominently in their proposal.

4. Protection of Proprietary and Sensitive Information

The parties acknowledge that, during performance of the contract or agreement resulting from this BAA, the recipient may require access to certain proprietary and confidential information (whether in its original or derived form) submitted to or produced by the Government. Such information includes, but is not limited to, business practices, proposals, designs, mission or operation concepts, sketches, management policies, costs and operating expense, technical data and trade secrets, proposed Navy budgetary information, and acquisition planning or acquisition actions, obtained either directly or indirectly as a result of the effort performed on behalf of ONR. The recipient shall take appropriate steps not only to safeguard such information, but also to prevent disclosure of such information to any party other than the Government. The recipient agrees to indoctrinate company personnel who will have access to or custody of the information concerning the nature of the confidential terms under which the Government received such information and shall stress that the information shall not be disclosed to any other party or to recipient personnel who do not need to know the contents thereof for the performance of the contract agreement. Recipient personnel shall also be informed that they shall not engage in any other action, venture, or employment wherein this information will be used for any purpose by any other party.