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2. CONTRACT (PROC. INST. IDENT.) NO. N68001-03-C-8005		3. EFFECTIVE DATE See Block 20 C		4. REQUISITION / PURCHASE REQUEST / PROJECT NO. See Schedule																																																												
5. ISSUED BY Code 2211 SPAWAR SYSTEMS CENTER, SAN DIEGO 53560 HULL ST., BLDG A33, RM 1602W SAN DIEGO CA 92152-5002 CODE 2211 JENNIFER T. MCKAMEY 619-553-5199 jennifer.mckamey@navv.mil		CODE N66001		6. ADMINISTERED BY (IF OTHER THAN ITEM 5) CODE S0514A DCMA San Diego 7675 Dagget Street Suite 200 San Diego, CA 92111-2241																																																												
7. NAME AND ADDRESS OF CONTRACTOR (NO., STREET, CITY, COUNTY, STATE AND ZIP CODE) Science Applications International Corporation (SAIC) 4001 North Fairfax Drive, Suite 375 Arlington, VA 22203 Attn: Mr. Fiorentino (Jurr) Pilar (703) 312-6077 pilarf@saic.com				8. DELIVERY <input type="checkbox"/> FOB Origin <input checked="" type="checkbox"/> Other (see below)																																																												
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17. <input checked="" type="checkbox"/> Contractor's Negotiated Agreement (Contractor is required to sign this document and return 1 copies to issuing office). Contractor agrees to furnish and deliver all items or perform all services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. <input type="checkbox"/> Award (Contractor is not required to sign this document). Your offer on solicitation number, including the additions or changes made by you which additions or changes set forth in full above, is hereby accepted as to items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.																																																												
19A. NAME AND TITLE OF SIGNER (TYPE OR PRINT) GARY C. BOWEN, GROUP CONTRACTS DIRECTOR				20A. NAME OF CONTRACTING OFFICER CHARMAINE JOWORSKI																																																												
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STANDARD FORM 28 (Rev 4-85)
Prescribed by GSA FAR (48 CFR) 53.214(a)
Created 29 Sep 2001

STATEMENT OF WORK

Contract: N66001-03-C-8005
Date: 15 October 2002
Title: Research and Development for Genoa II

1.0 INTRODUCTION AND BACKGROUND

The Space and Naval Warfare Systems Command (SPAWAR) Systems Center San Diego (SSCSD) is the principal Navy Research, Development, Testing, and Evaluation (RDT&E) center for Command, Control, Communications and Intelligence (C3I). SSCSD performs mission analysis, assessment of the technology base, concept exploration, basic research, demonstration of technology, capability development, engineering in support of production, systems engineering, support to operating forces, and integration of C3I systems. Security Certification and Accreditation (C&A) is an inherent part of these activities.

2.0 SCOPE

2.1 Purpose. Project GENOA II builds on Project GENOA (<http://www.darpa.mil/iao/genoa.htm>) (Not an acronym) Project GENOA is developing information technology for the intelligence community to rapidly and systematically accumulate evidence, facilitate collaboration (while protecting critical information), and test hypothesis that support decision-making at the national level. The purpose of this task is conduct of research and development of software tools that support the three major technical areas of DARPA's Genoa II program. Genoa II, sponsored by the Defense Advanced Research Projects Agency (DARPA), has been initiated to assist teams of intelligence analysts and operations and policy personnel to work faster, smarter, and more joint in their day-to-day operations. To achieve this goal, Genoa II will focus on developing information technology needed by teams of intelligence analysts and operations and policy personnel in attempting to anticipate and preempt terrorist threats to US interests. Such information technology is roughly organized into three major technical areas:

- Evidential reasoning, scenario generation, and explanation
- Collaboration and corporate memory
- "Read everything (without reading everything)"

Key to the accomplishment of Genoa II's goal is the fusion of human awareness, as represented in *Influence Net* models of causal relationships, and automatic processing of information—either human-provided or message traffic—to detect changes to the corpus of modeled knowledge. An *Influence Net* is a graphically created model that depicts events and their causal relationships. In constructing the model, researchers, experts, and planners collaborate and thereby increase their knowledge about cross-discipline relationships. SAIC will provide research and development of decision support tools that alert a team of analysts and operators to relevant changes in the modeled corpus.

3.0 TECHNICAL REQUIREMENTS

3.1 The following paragraphs describe the duties and required efforts of the Contractor in the conduct of this program.

3.2 Research and Development. The contractor shall conduct research into technologies that support the fusion of information and human awareness in order to detect changes in the corpus of knowledge. Findings of this research will be developed into operational software prototypes for delivery to the DARPA sponsor, and test and evaluation. The contractor shall conduct research and development into the following technical areas.

3.2.1 Collaborative Evidential Reasoning

The contractor shall perform research and prototype development to convert context represented by *Influence Net* models of causality into hierarchically structured entities with attribute-value pair classification. *Influence Net* models of context are developed using the contractor's SIAM™ modeling approach, funded under previous DARPA programs, which provides analysts with capabilities to construct, reason about, and explain structured arguments. The contractor shall perform research and development of new associative memory techniques and metrics that allow the automated tool set to search unstructured, dynamic information to determine relevant and novel changes. These associative memory techniques will be integrated with the structured causal entities to detect changes to the knowledge corpus, and propose new hypotheses of causality. The contractor will integrate these tools with collaborative environments to provide distributed teams of analysts and decisions with simultaneous view and edit capabilities of the modeled information, provide notification of changes to the knowledge corpus, and access/display the evidence underlying such change notifications.

3.2.2 Consensus Analysis Tools

The contractor shall perform research into and prototype development of new consensus analysis tools that acquire and process information from human collaborators representing diverse domains, which was acquired through the human-machine interface available with the SIAM™ application. These tools will then support the derivation of semantic knowledge from which relevant, credible changes to the knowledge corpus are detected. The contractor shall integrate these tools with the collaborative reasoning components to provide: metrics to validate the derived knowledge and competency of human collaborators, and to properly route new evidence to those whose assumptions are either supported or challenged by it. These tools will also reveal relative similarities and differences among collaborators in the knowledge they possess, which will be used to structure further collaborations and the formation of advice networks.

3.2.3 Deceptive Data Detection

The contractor shall perform research into and prototype development of new cognitive aids that identify deliberate deceptions by flagging incoming text information as truthful or suspect. Such identification is based on weighted elements, such as source credibility, mood and tone, and conflicts with known data. The contractor shall integrate these aids with the collaborative reasoning components to provide capabilities that: detect and track changes to the knowledge maintained in the collaborative evidential reasoning models of causality; and identify conflicts or confirmations to this

knowledge between incoming data streams and the models. This effort will include the development of appropriate metrics and validation methods to assess the success of this deception detection process.

3.3 Test and Evaluation. The contractor shall support the Genoa II program office in the development and conduct of test suites and test metrics to verify the achievement of the research and development tasks described in 3.2. This support shall include the following items:

- Collaborate with the Genoa II Test and Evaluation (T&E) contractors to define generic test suites,
- Design tailored test suites, based on the generic test suites, for evaluation of the Contractor's operational prototype software,
- Conduct annual tests and evaluations using the tailored test suites, and
- Develop a written report of the results of the test and evaluation.

3.4 Optional Year 1 Tasks. The contractor shall support the Genoa II program office as it integrates base period research and development efforts with operational environments. This support shall include the following items:

- Usability improvements, including user interface,
- Improvements to performance metrics, including expansion to large scale simultaneous users, and
- Integration with expanded behavioral and intentional terrorist models.

3.5 Optional Year 2 Tasks. The contractor shall support the Genoa II program office as it continues to integrate base and option year research and development efforts with operational environments. This support shall include the following items:

- Integration of the collaborative evidential reasoning components with the expanded deceptive data detection modules,
- Usability improvements to the consensus analysis tools, based on user-feedback, and
- Improvements to the deceptive data detection tools, based on user-feedback.

4.0 TRAVEL

The contractor shall perform travel in the accomplishment of this order. The following travel is anticipated. The locations include:

- between San Diego, California and the Washington, DC metro area
- between Morristown, New Jersey and the Washington, DC metro area
- between Morrisville, North Carolina and the Washington, DC metro area
- travel within the Washington, DC metro area