

Company Name
Address
City
State
ZIP
EPOC First Name
EPOC Last Name
EPOC E-mail
EPOC Phone Number
Technical Capability

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3.1 R&D Support. SBSI has extensive expertise with the Virtual SYSCOMs in information, data, and sensor fusion and integration, from research to systems implementation. Recent R&D includes ontology based fusion, development and use of inference algorithms and nets, knowledge based fusion, complex data translation, and in-depth experience in performing fusion with intelligence-based databases. These technologies are involved in many of the Virtual SYSCOM programs for C4ISR, Weapons Systems, and databases.

3.2 Engineering Support. SBSI has widely recognized capabilities in C4ISR architecture, system-of-systems engineering, enterprise architecture, and force warfare systems engineering and architecture. SBSI has worked with the Virtual SYSCOMs in these areas. Particular focus has been on Force, C4ISR, and Weapons Systems data architectures including TADILs, intelligence databases, interoperability standards, and core command and control data models.

3.3 Prototyping. SBSI has developed prototypes for the Virtual SYSCOMS for mission and decision support systems related to new data architectures, next generation fusion, integrated M&S data warehouses, and enterprise architectures.

3.6 Software. SBSI is on the leading edge of technology enhancement through its use of innovative tools, techniques and products. SBSI has developed data fusion, data integration, and decision support software for the Virtual SYSCOMS. These include development of real-time databases

for Battle Management and Command and Control, taxonomy tools; and data translation tools. SBSI has developed a wide range of database products in database design and implementation and related applications for Virtual SYSCOM projects involving RDA/CHENG, SPAWAR, NAVAIR, Department of the Navy CIO, HQ USCG, OASD(NII), and US Joint Forces Command.

3.12 IS/IA/IT. SBSI has been engaged in a wide range of IS/IT and other technology-related tasks since its founding in 1996 for a broad range of Naval customers, to include NAVSEA, SPAWAR, RDA/CHENG, Department of the Navy CIO, and the US Coast Guard. During that time, SBSI has gained significant expertise in program management, program/task support, system analysis and design, System of Systems (SOSe) Development; analysis of requirements for systems integration, systems migration, and sunsetting of legacy systems.

3.1, 3.2, 3.3, 3.4, 3.6, 3.12

3.1 N00421-04-P-0746 (Prime)

Lee Davis (301) 342-9116

Silver Bullet is researching a data open architecture layer for the E-2C Hawkeye that can support advanced levels of data fusion.

Experiments are being conducted with various tracking and assignment algorithms against an embedded DBMS implementing a portion of the Command and Control Information Exchange Data Model (C2IEDM), the NATO standard for C2, for the purpose of understanding the process for rehosting the E-2C's mission software into the new architecture. In parallel, Silver Bullet is developing techniques for ontology development from data models and advancing the theory of ontology relationship to inference networks, in particular, a closed mathematics for inference network theorems. Key Technologies: data fusion, ontologies, inference networks,

Functional Area(s)
Past Performance

embedded DBMS, open architecture.

3.2 N66001-00-D-5076

(Prime) Susan Henry (202) 267-1637 Silver Bullet developed C4ISR taxonomies for all the key elements of Deepwater's C4ISR architecture (operational, systems, and technical) by synthesizing from over 30 USCG sources. These will be the basis for the development of the Deepwater C4ISR architecture by the prime contractor. Key Technologies Used: Silver Bullet's taxonomy tools, Core Architecture Data Model.

3.3, GS007T99ALD0210 (Sub)

Paul Shaw (858) 537-8515

Department of the navy Enterprise Architecture Services

Silver Bullet has been the Department's representative on several matters, notably the DoD Architecture Framework (DoDAF) and the Core Architecture Data Model (CADM). Silver Bullet drafted a significant amount of the modernizations and re-orientations of DoDAF. Silver Bullet participated in the design of CADM and developed the only CADM-based architecture development toolset. Silver Bullet designed and implemented techniques for enterprise architecture data sharing and synchronization and display interfaces for management of large multi-dimensional and highly inter-related datasets.

3.4, N00421-04-T-0129 Tom

Gerhki (703) 684-2534

Developed the models, data schema, and database structures for the Navy Common Database (NCDB) to be used as the common modeling and simulation database resource throughout the Navy and Marine Cor

3.6, GS00K96AJD0014 (Prime)

Lee Davis (301) 342-9116 Silver Bullet participated in the design of CADM and developed the only

CADM-based architecture development toolset. Silver Bullet designed and implemented techniques for enterprise architecture data sharing and synchronization and display interfaces for management of large multi-dimensional and highly inter-related datasets. Also supported the development of policy and implementation guidance for Data Management and Interoperability (DMI) and NMCI Critical Joint Applications architecture development for end-to-end interoperability testing. Key Technologies: CASE DBMS forward-engineering tools, Object-Oriented E-R modeling; database implementation, and display of complex data, enterprise data synchronization.

3.12 **GS00T99ALD210 (Prime)**

Paul Shaw (858) 537-8515

Follow-on to

GsooK96AJD0014. Silver Bullet has provided enterprise and IT architecture support to the DoN Chief Information Officer including technical expertise for governance formulation and architecture infrastructure support. Silver Bullet has been the Department's representative on several matters, notably the DoD Architecture Framework (DoDAF) and the Core Architecture Data Model (CADM). Silver Bullet drafted a significant amount of the modernizations and re-orientations of DoDAF. Silver Bullet participated in the design of CADM and developed the only CADM-based architecture development toolset. Silver Bullet designed and implemented techniques for enterprise architecture data sharing and synchronization and display interfaces for management of large multi-dimensional and highly inter-related datasets. Also supported the development of policy and

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