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PROPOSAL WHITE PAPER

**MAXIMIZING CAPABILITIES AND ACHIEVING SUPERIORITY
THROUGH AUTOMATED, INTELLIGENT SOFTWARE**

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To protect client confidentiality, many areas have been deleted/modified and substituted with It is not a grammatical error.

Executive Summary

The role in the and has catalyzed the pervasiveness of an operational environment that demands insightful analysis on a 24/7 basis. This level of sophistication in analytical capabilities calls for technologies that can automatically monitor and integrate data from networks and information sources. Users, in turn, require tools that can alert them (in real time) to changes in network and situational variables and also support efficient manipulation, modeling, and analysis of large data sets.

Existing technologies and tools do not offer plausible solutions. To achieve the vision of in its truest sense, a new breed of intelligent technologies must be developed.

...., an award-winning, research-driven solutions provider, bridges the gap through, a patented, machine-learning technology that **enables the development and integration of highly adaptive, on-demand applications**. ... are user-driven, user-defined productivity enhancers capable of automatically and intelligently mimicking almost any interaction a human being can perform with extremely large data sets—in near real time. ... work with multiple sources and can deliver results to enterprise portals, Excel, e-mail, databases, RSS feeds, mobile devices, etc. Major operational benefits include optimized speed, accuracy, and precision; distributed self-synchronization; flexibility and adaptability; and **unparalleled decision superiority**.

The and's Strategy of

....—multiple systems integrated into an adaptable, human-centric system capable of multi-location inter-operability (land, sea, and space)—enables effective integration and seamless coordination of geographically-dispersed human decision makers and promotes multi-source access and processing and customized delivery to users *network-wide*.

Data Uncertainty/Imprecision and Technology Shortfalls Pose Serious Challenges

In an information-driven operational environment, effectiveness relies on robust technology resources to support automatic, multi-source information integration and processing. Additional requirements would include presentation of precise and reliable data and information; provision of real time alerts and 24/7 surveillance; and secure dissemination of actionable knowledge to tools and devices that are independent of geographic constraints and consistent with a user's level of command and operational situation. Current shortfalls include:

- Lack of a decision-enabling picture.
- Shortage of automated techniques that enhance information value.
- Unavailability of automated techniques capable of consistent, timely integration of data, information, and decisions from multiple sources.
- Inability to customize and views based on mission goals.
- Impaired decision-making due to paucity of accurate and timely information.
- Absence of scalable, robust tools that can handle tens of thousands of sources.

New technologies must address data fusion needs from Level 2 to Level 4—representing data and information from multiple sensors and sources, representing relationships between objects, representing effects of relationships among objects, and representing processing and event estimation requirements to facilitate user decisions.

... Bridges the Vacuum and Provides Actionable Intelligence through Algorithmically-Advanced, Intelligent Software ...

Program Thrust: Automated Information Integration

...’s ... can be developed and integrated to facilitate multi-format, multi-source data fusion and effective user decision-making based on **precise, actionable knowledge**. ... **provides a complete solution that addresses the following sub-areas:**

Inference Engines and Knowledge Bases: ... Catapult Data Fusion to New Heights

... leverage mathematically-advanced algorithms to achieve Level 2/3 fusion—recognize activities and monitor potential threats—and can be customized to recognize, use, and integrate data from disparate sources, including networks, electronically-filed reports, databases, and Web content. Information and data can then be integrated to build powerful knowledge bases and data assessment capabilities. Features include 24/7 monitoring capabilities and real time alerts.

Information Integration Optimization: ... are Equipped with Optimization Tools

... can be customized to accommodate key characteristics of large-scale data and information sources and user requirements in multiple missions and operations. Optimization features ensure compliance with user needs and other customization requests.

Our Platform

Intelligent Software ... Empower Decision-Making and the Success of Missions—... Unfolds the Future of, Here, Now!

... automatically identify high-value qualitative and quantitative information and data from disparate, multi-format sources; fuse large amounts of data (terabytes); automatically mashup multiple elements; and deliver results to end users. Results can be securely delivered to portals, dashboards, handheld wireless devices, e-mail, existing applications, databases, etc. Data formats support modeling, trend analysis, and other decision-enabling techniques.

Fulfilling the Promise of Net-Centricity: Network-Wide Integration, Real Time Information, Highly-Scalable Applications, Situational Awareness, Precise Data Surveillance

...’s solution offers a truly net-centric environment and the ability to create on-demand applications across large-scale, distributed data. An intuitive, point-and-click interface enables non-technical users at any level of command to create applications **within minutes**. ... are powered by user-defined (or pre-existing) schemas and **do not require programming, engineering, or development**. In an operational environment characterized by constant threats, ... can prove to be effective, often life-saving, productivity enhancers due to their ability to automatically uncover, prioritize, and transform large-scale data into actionable intelligence. The information can be accessed by commands at various locations via Web interface.

[image withheld]

Intelligent capabilities and state-of-the-art features include:

- + Automatic data aggregation and normalization. Precision extraction capabilities that go beyond traditional monolithic approaches.
- + Easy online access—any location, land, sea, or space—and sharing features.
- + 24/7 monitoring and surveillance. Alerts users to changes and threats.
- + Data capture from *any* language.
- + Quantitative and qualitative data support.
- + Delivery of data in formats facilitating modeling, analysis, and prediction.
- + Seamless integration with existing systems. Easy adaptation to changes.
- + Rapid response and emergency preparedness, surveillance, and more.
- + Rapid import and integration of high value data across networks.

Components: ..., ..., and ...

Quote withheld

...: Discover Information and Data, Create Sources, Facilitate Integration

... are virtual human prototypes capable of performing almost any task their human counterparts can do to interact with data. With just a few clicks and examples, powerful algorithms decipher user demands and train ... to retrieve and infer dynamic information from disparate multi-format sources.

... automates information acquisition, including monitoring, extracting and aggregating content of interest from the Internet, databases, Intranets, RSS feeds, email accounts, and many other sources.

[image withheld]

... Capabilities:

- Surveillance and monitoring
- Time series data collection
- Integration of sources
- Support for quantitative analysis needs
- Data extraction/aggregation
- Near real time content updates through Spidering ...

...: Unfolding the Power of Collective Intelligence—Mashup, Personalize, Enhance; Harness user-generated content and collective intelligence

Quote withheld

... is a browser-based storage and sharing repository, a collection of community-generated It allows mashup, sharing, and customization of information and data generated by individual ... in a network environment. ... enables combined efforts of numerous users to be synergistically harnessed to achieve mission critical capabilities like never before. ... is based on principles of network effectiveness and snowballing—the more users create and share ... and best practice resources, the more powerful ... becomes. With just one click a number of users can subscribe to a “community of interest” or mashup multiple ... to unfold new possibilities. Information can be kept private or shared with a desired base of subscribers.

The Library becomes exponentially valuable with use

... empowers users to create personalized Agent Subscriptions of mashup Each subscription allows the user to personalize content delivery and format. The ... are re-usable and a number of users can create as many subscriptions as needed—each providing timely and important alerts. Intuitive bookmarking and markup tools make it easy for users to highlight information, share sources, search ..., or alert subscribers to changes.

Example: If 100 officers were each to create 100 ... against unique sources, ten thousand powerful information sources and on-demand applications could emerge. The sources could be shared, personalized, and delivered to suit user needs. Only relevant information would be extracted to procure meaningful information from vast data—both foreign and domestic.

... are sensitive to resource constraints. Out of the box features allow the creation of thousands of ... with minimal strain on resources—economic, technology, and human. Creation of thousands of ... is a snap and can be accomplished without IT resources.

Features include one click subscription, Agent execution, personalization, schedules, filters, and change alert capabilities. Aggregate results from multiple ... can be mashed into a single view. The mashup feature allows grouping and activating of ... individually or in bulk.

...

[image withheld]

... empowers users to create applications on demand by dragging and dropping Agent results (graph, tabular, or text formats). Delivery options include your existing enterprise portal, Excel, e-mail, databases, RSS feeds, mobile devices, and more. The ... enables users to view individual Agent results or mashup on-demand applications by dragging and dropping Agent results in a “sandbox”. The sandbox serves as a repository of valuable information and can be used to gain actionable information. is available as an appliance, or can be deployed on a single secure server, server farm, or as a hosted solution.

Delivers highest level of performance and reliability; runs tens of thousands of ...

... is highly scalable and features an inbuilt server that acts as a mature engine. It handles execution of ... and delivery of resulting content. ... can be installed in an enterprise computing environment and accessed through an easy-to-use admin interface to manage, analyze, and adjust Agent executions. The components work together to represent a robust infrastructure that enables configuration of on-demand applications.

Key Benefits: Transforming the Way ... Access and Use Information

- **Turnkey, highly adaptable and scalable solution.** Easily integrates with existing systems.
- **No programming or engineering.** Point-and-click interface. Saves valuable IT resources and development costs. Unique Agent Libraries reduce dependency on IT resources.
- **Empowers multiple commands.** Make decisions based on actionable knowledge.
- **Access anywhere.** Can be accessed and used from any location.
- **On-demand applications.** Within minutes, users can build customized tools.
- **10x to 100x productivity.** *Real* automation and elimination of time-consuming tasks fosters productivity saves time and money. **Maximizes value** by providing only relevant data.
- **Minimal training.** Users can start customizing and using within minutes.
- **Net-centric environment.** Facilitates collaboration, data sharing, and network monitoring.
- **Supports multiple sources and formats** and securely delivers **results to multiple devices and tools.**
- **Can do anything humans can**—and does it 24/7. Supports analysis.
- **Abstract and deliver precise, normalized data.** Extraction of data from deep Web.
- **Solid precision, timeliness, and value.**
- **Predictable, normalized data** across millions of databases. Unified view of sources.
- **Master data management.** Map each schema to central schema or policy hub—easy way to unify information without normalizing schemas, creating policy hubs, or separating data warehouses.
- **Decipher trends in unique data points.** Continuously monitor, quickly validate ideas, and spot correlations between situations.

About ...

Quote withheld

Leading scientists from founded ... in through a-funded research program. ... is an award-winning, research-driven company with demonstrated excellence in innovation and transformation. With multiple locations, an annual growth rate of [withheld]%, numerous accolades, and successful deployments across government agencies and corporations, ... is posed to lead the agility-driven solutions market. The company's pioneering research and technical and business efforts are backed by ... and other private equity investors.

Clientele:

Government agencies, industry 1, industry 2, industry 3.

Awards:

- Award 1.
- Award 2.
- Award 3.
- Award 4.

[image withheld]

Pricing

[confidential and withheld]