

Case Study: WebTHREADS Enhancement

BACKGROUND:

This Department of Defense project provides expanded intelligence processing and analysis capabilities used by U.S. Air Force organizations. These capabilities can significantly improve intelligence analysis provided by an existing human intelligence application called WebTHREADS, an acronym for Web-based Threat HUMINT (HUMAN INTelligence) Reporting Evaluation Analysis and Display System.



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PROBLEM:

- Legacy system
- Large volumes of raw data

SOLUTION:

Modus Operandi (MO) extended its Wave® technology capabilities to WebTHREADS' parsing and correlating of large amounts of intelligence data. MO built and deployed a set of semantic-oriented architecture services that provide the required intelligence, surveillance and reconnaissance (ISR) message processing across much larger amounts of data from diverse unstructured sources used by analysts throughout the Department of Defense and intelligence community. Using the National Institute of Standards and Technology (NIST) gold standard data set and industry standards for measuring data search performance that takes into account completeness and accuracy of results, MO improved search results by over 100 percent in some cases on individual essential elements of interest (EEI) when compared to the existing WebTHREADS technology. MO accomplished this by using text analytics to identify, extract and normalize concepts and relationships.

RESULTS:

- Efficiently process large amounts of raw data
- Enhanced intelligence analysis
- Optimized system response time and accuracy
- Improved search results over 100% based upon the NIST F-Measure of precision and recall

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