

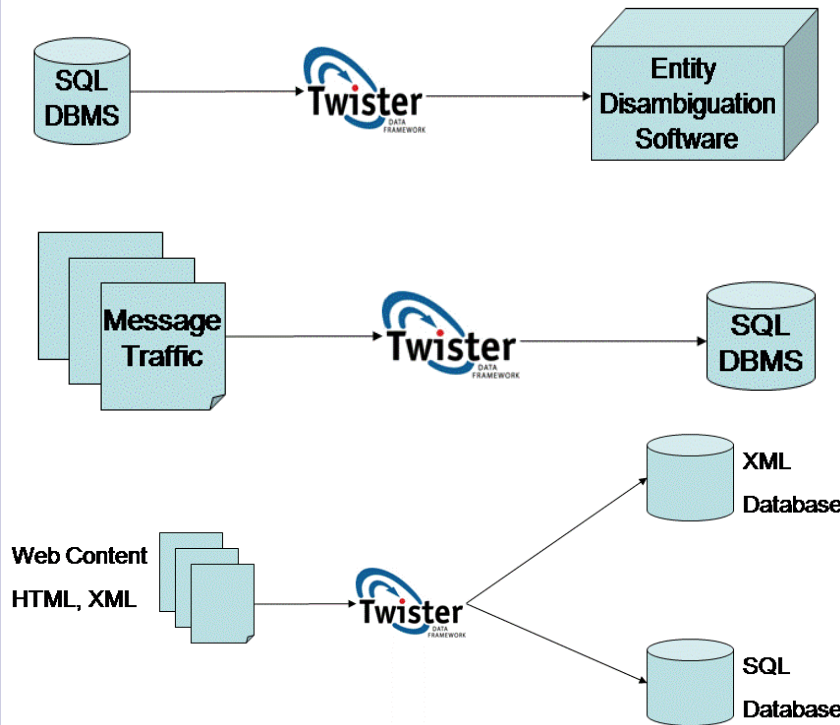


Data Management & Data Sharing Solutions

Transforming Ideas into Solutions... Transforming Data into Information...

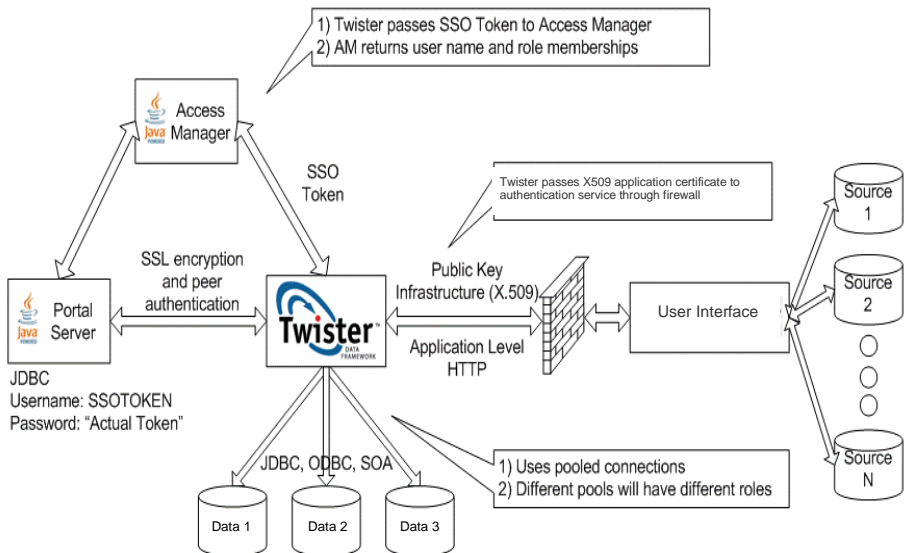
Solutions Made Simple, Inc. (SMSi) is solving data management problems across the Intelligence Community (IC) and DoD. If you can identify a data source and gain permission to use it, we can quickly make it accessible and usable for your analysts. Our expertise and software product, Twister, transforms data into information and enables sharing of data sources within communities of interest (COIs). SMSi's customers are using Twister to ingest and deliver massive amounts of data, in a variety of formats, at near real-time speeds. Twister is applicable to a number of DoD, IC, and Department of Homeland Security (DHS) mission areas, including Counter Terrorism (CT), Counter Intelligence (CI), Cyber Security, Indications & Warning (I&W), and many others.

Counter Terrorism and Counter Intelligence



Twister rapidly transforms data sources used in CT and CI analysis by performing the Extract / Transform / Load (ETL) process in parallel. Third party extraction tools are integrated by Twister for use in extracting entities from data sources to populate new databases. Twister's built-in normalization and transformation routines perform address and date standardization, field splitting, value normalization, and pattern matching operations, among others. With Twister, converting data from one data model to another (e.g., hierarchical to relational), and from one third party tool's format to another (e.g., message processing system to DBMS) can be completed much faster and at lower cost than custom software development. Twister can deliver data as output to any file format via templates and XSLT and to any JDBC database.

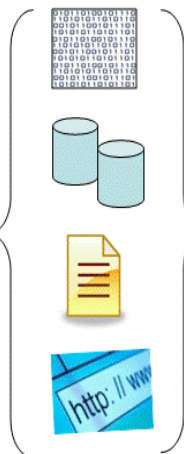
Twister's federated query capability enables access to CT and CI data across different data sets and networks. Twister mediates access to the different data sets and manage all credentials; proxies data from the multiple (homogeneous or heterogeneous) sources; and adapts/translates between JDBC/ODBC, XQuery and SOAP interfaces. Since Twister operates in a parallel environment, it is scalable to meet the demands of queries on large data sets and/or increasing analyst loads. Query result sets are collected from each source and combined into a single correlated result set (or multiple results sets).



Cybersecurity

Computer Network Defense (CND) analysts rely on consolidated and correlated alert and network intrusion data to protect against malicious attacks on our information systems and networks. Twister rapidly ingests and normalizes raw data collected from network gateways and monitoring tools to enable integration, searching, and visualization of the transformed data so that analysts can rapidly respond to CND alerts. With Twister, raw data can be processed, transformed, and delivered more efficiently and effectively to support CND alert investigations and to enable decision makers to direct and enable cyber attacks.

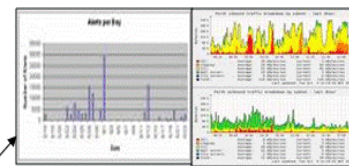
Network Traffic & Intrusion Data



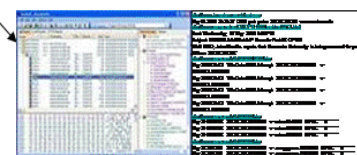
Structured, Unstructured, & Streaming Data from Network Monitoring Tools & Network Gateways



Visualization Applications



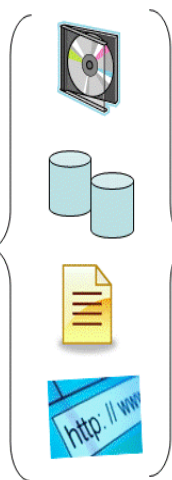
Twister enables ingestion and normalization of raw data sources for integration, searching, and use in third party tools



Portal & Reporting Applications

Indications & Warnings (I&W)

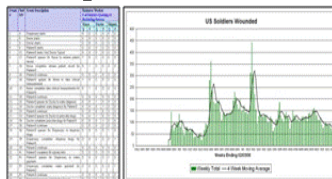
Event, Threat, & Network Data



Structured, Unstructured, & Streaming Data



I&W Analysis Applications and Event, Threat, & Trend Prediction Modeling & Simulation Tools



Twister enables ingestion and normalization of raw data sources for integration, searching, and use in third party tools



Common Operational Picture (COP) and Information Sharing Portal Applications

To predict and prevent events and threats, and to identify trends, I&W analysts need an automated process to extract relevant data and integrate this data for use in I&W analysis tools. Twister's Data Enrichment capability easily supports populating a repository of extracted entities, links, events, and geolocations to track activities of nodes and networks of interest. In addition, Twister can generate input files for use in I&W modeling & simulation tools. Essential to I&W analysis, Twister's delivery features include notification of new data availability via watch lists and alerts.



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