



The importance of adding context to data

The success of AI and machine learning is rooted in the speed, quality and correlation of data



David Wray
CTO, Micro Focus Government Solutions

ARTIFICIAL INTELLIGENCE IS the key to finding relevant information in a sea of data as a source of value creation and delivery to gain a competitive advantage. AI can offer invaluable insights into public sentiment, help agencies resolve security-related IT events and support a comprehensive approach to critical infrastructure protection.

By leveraging advanced correlation and aggregation techniques, agencies can use AI to eliminate redundant or non-important information and thereby improve mission outcomes. For example, Micro Focus Government Solutions feeds our advanced security information and event management system with data from log file collectors

to greatly reduce irrelevant data, improve cyber hunting and detection, and fuel predictive analytics.

Focusing on the most relevant information

Agencies need to go beyond just capturing volumes of data to providing a system of insights and knowledge in context with mission priorities to facilitate digital operational decisions. Generating actionable insights requires the ability to correlate data from any source and in any format, including images, video and audio. That's why Micro Focus couples our Intelligent Data Operating Layer (IDOL) technology, developed as part of HPE's Autonomy, with advanced techniques for

enriching data and enabling knowledge discovery with rich media analytics.

This approach enables agencies to keep pace with what's happening in their internal call centers as well as email, social media and the news media in context with their mission objectives – for example, by assessing public sentiment about the latest policy statement or government trade agreement to refine agencies' communications strategy.

With IDOL, agencies can use patterns to understand unstructured and structured data from an extensive, diverse library of data. They can then zero in on the most valuable information and disregard irrelevant or low-priority information.

Federal and local agencies can combine that information with physical security data to monitor borders or better assess the threat levels during large public events. By putting all that information in context, agencies can create a critical infrastructure monitoring solution that aligns with the Department of Homeland Security's National Infrastructure Protection Plan.

A centralized approach to data protection

Understanding that data is a strategic asset, agencies should ensure that data protection is built into their strategies for AI and analytics. Although agencies have many ways to encrypt data at rest and in transit, there are still major gaps in security when data is in use. In particular, many agencies struggle to protect data when it is pulled from secure systems for analysis or shared with other agencies.





“Generating actionable insights requires the ability to correlate data from **any source and in any format**, including images, video and audio.”

Fortunately, tools like our Voltage SecureData technology can encrypt data in use without hindering analytics. We leverage a format-preserving encryption standard, recommended by the National Institute of Standards and Technology, to encrypt data even when it is in use so that if the data is breached, it is unusable to bad actors.

In addition, agencies must understand where data resides in order to protect it.

However, duplicate data is often stored in redundant troves by various business areas. Agencies could better protect this data and reduce risks by discovering and removing duplicate copies and centralizing a data protection scheme.

Treating data like a strategic asset requires an enterprisewide approach and advanced information management and governance techniques. But agencies have

tremendous potential to save money while creating a more secure yet flexible IT environment. In addition, they can make significant progress on the cross-agency priority goal for workforce improvement by allowing federal employees to focus on strategic activities. ■

David Wray is CTO at Micro Focus Government Solutions.

Powering Digital Transformation

Software for bridging now and next

At Micro Focus we help you run your business and transform it. Our software provides the critical tools you need to build, operate, secure, and analyze your enterprise. By design, these tools bridge the gap between existing and emerging technologies—which means you can innovate faster, with less risk, in the race to digital transformation.

www.microfocusgov.com

MICRO FOCUS Government Solutions