

Multifactor Security For Midwest Public Sector Client



Type: System Integrator/Oracle
Technology Specialist
Founded: 1982
Locations: West Des Moines, IA;
Minneapolis, MN;
Portland, OR
Public/Private: Privately held
Geography: North America
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Zirous is a privately held company specializing in Oracle sales, development, implementation and integration. Zirous has extensive experience with private companies and public organizations throughout the country.

Overview

A Midwest-based, public sector justice entity need to secure its vital crime fighting data and at the same time increase users' access to that data. To solve this business problem, Zirous implemented Oracle Adaptive Access Manager (OAAM), a multifactor (more than id and password) security solution that met all of the client's requirements.

The Challenge

Diverse types of remote users access the sensitive data over the Internet, which made a zero-footprint solution essential. In other words, the solution could not require users to make use of a physical device or install a local client on his/her computer. An additional concern was the need to satisfy an FBI audit requirement that the security solution be capable of automatically "learning" user behavior patterns.

The solution had to:

- Provide a mechanism for advanced (beyond a login ID and password) authentication of humans for web applications using originating device IP address, ISP, connection type, behavioral attributes such as time of day and recent profile changes, and other risk factors to assess the risk of authentication requests.
- Be self-learning. That is, authentication of humans based on behavioral attributes and device forensics must adjust to learned factors about the authenticating humans and their authentication circumstances.
- Make use of user-selected, pre-defined challenge question and user-provided responses for high-risk transactions and authentications.
- Meet all FBI compliance requirements

Technology Stack:

Oracle Adaptive Access Manager
Oracle Database 10g
Tomcat 6.x
JAVA

Solution Details:

In order to meet the requirements, Zirous implemented Oracle Adaptive Access Manager (OAAM), a next generation, risk-based, fraud detection and prevention software package. OAAM protects the agency’s web applications from a full range of web attacks, including phishing, Trojans, fraudulent transactions, and Man-in-the-Middle attacks, while meeting all business requirements. Zirous consultants led all phases of the OAAM project following our standard Identity Management Methodology. Zirous added pre, post, and transactional security to the client’s web applications, as shown in the Before and After diagrams below.

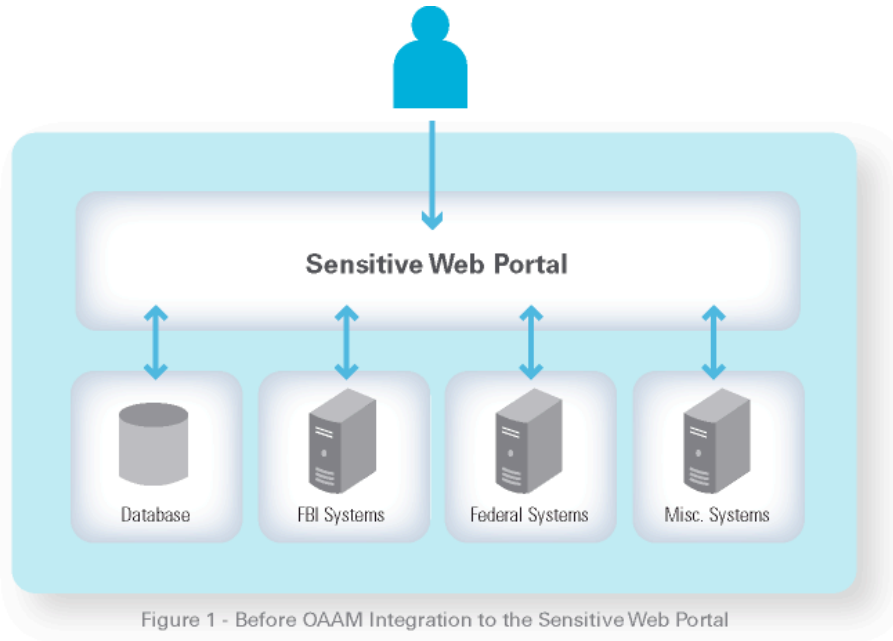


Figure 1 - Before OAAM Integration to the Sensitive Web Portal

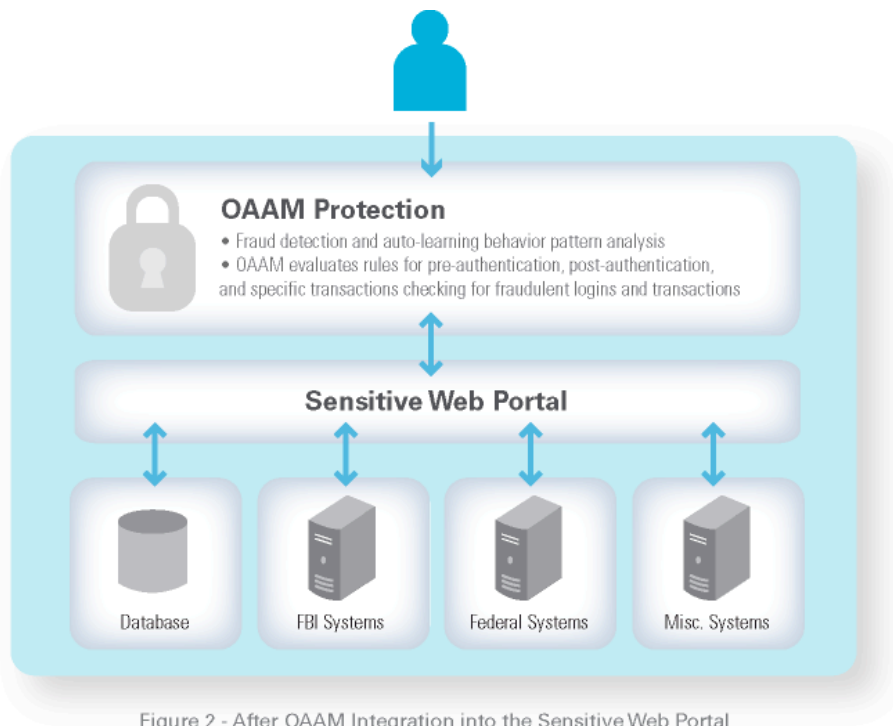


Figure 2 - After OAAM Integration into the Sensitive Web Portal