



**CNET**  
GLOBAL SOLUTIONS

# HOW DOES SINGLE SIGN-ON ENHANCE THE SECURITY OF APPLICATIONS AND PROVIDE A SMART SOLUTION TO CURB PASSWORD FATIGUE?



**A SINGLE PASSWORD FOR YOUR LOGIN NEEDS!**

# ARE YOU CONFRONTED BY FINDING THE RIGHT WAY TO BALANCE SECURITY AND USABILITY OF APPLICATIONS? IS YOUR CONCERN RELATABLE TO THIS?

Digitally transforming companies will have diverse enterprise applications made accessible for employees and end-users on a broader platform. Each enterprise-level application consists of different security requirements and set up. Users in many companies are forced to remember multiple different passwords for various applications accessibility, it's a usual scenario in oracle EBS where respective team members have to remember five or more passwords to access enterprise applications and resources, and every 3 months passwords will be changed to ensure the safety.

The need of enabling a simple and secure way of accessing heterogeneous applications (such as Oracle EBS, OBIEE, Windows, Java, etc) is crucial for every forward-thinking company but finding the right solution is challenging. SSO makes it easy by providing common security access to all applications in a highly secured environment. The implementation of SSO not only circumvents the practice of remembering credentials for individual applications but also improves user productivity by eliminating frequent helpdesk calls associated with passwords concerns.

## Client overview

### Location

Williamsport,  
Pennsylvania

### Industry

Aircraft engines  
manufacturing

### Project duration

120 days

## Client profile

Lycoming Engines is a well-known manufacturer of aircraft engines. With a factory in Williamsport, Pennsylvania, Lycoming produces a line of horizontally opposed, air-cooled, four, six and eight-cylinder engines, including the only FAA-certified aerobatic and helicopter piston engines on the market.

# BUSINESS REQUIREMENT

## Single Sign-On

As a forward-thinking company, Lycoming wanted to enable a secure and straightforward way for their employees to access various applications (such as Oracle EBS, OBIEE, Windows, Java, etc.). Single Sign-On (SSO) makes this possible by providing universal security access to all applications in a highly secure environment. With the implementation of SSO, employees need not remember credentials for individual apps. Moreover, you can see an uptick in user productivity due to the reduction of frequent helpdesk calls associated with passwords concerns.

## What Single Sign-On can enable?

The goal of single sign-on is to provide a secure method of authenticating a user one time within an environment and using that single authentication as a basis for access to multiple applications or systems. All the applications share a common security mechanism that allows a user to have a single user ID and password to access all resources. This is very attractive from an administrative standpoint because it means user accounts can be created in a single database that all applications access for authentication.

### Advantages

- Mitigate risk or access to 3rd party sites as a password is not stored or managed externally
- Reduce multiple passwords for different applications
- Decrease time spent logging into numerous applications
- Reduce IT costs with support tickets for password maintenance



# SUGGESTED SOLUTION

## The problem and initial approach

Lycoming had multiple systems, and each had its password and rules, making it difficult for users to the passwords. Moreover, each password would have to be changed at different times with different rules applying, which made remembering them tough.

Lycoming tried to mitigate this situation by applying SSO with Kerberos. They moved smaller applications to a single SSO platform, which natively supported the Kerberos platform and then started working on applications with a large user base.

## The solution from CNET

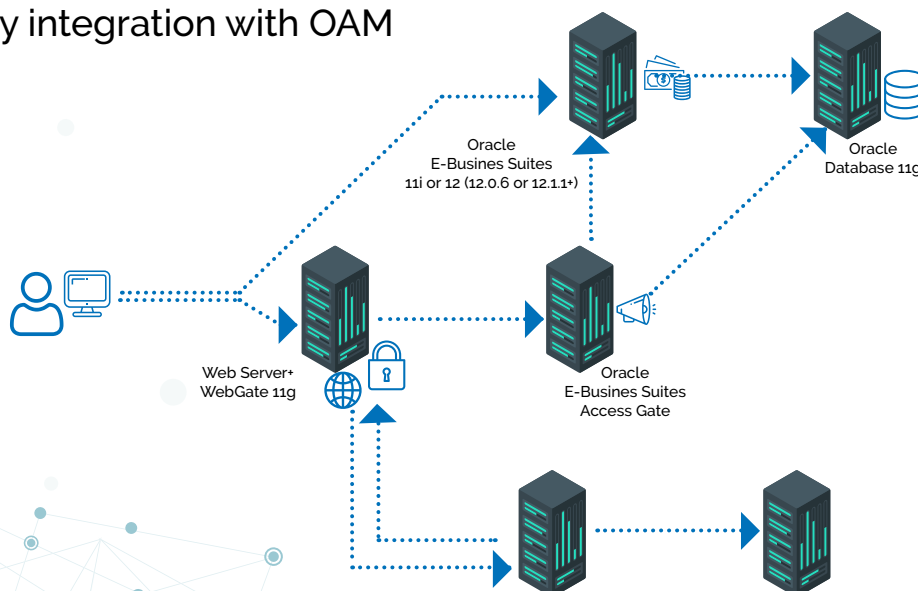
CNET started by studying the landscape and current architecture and proposed a solution to move the application with current Release 11 of EBS.

As a next step, CNET checked the available licensed products with Lycoming and used them for integration. CNET found Lycoming had licenses to Oracle AIM and used the architecture.

The architecture was not open for R11. CNET Architects found configuration and checks that need to be modified to make EBS applications work with Oracle AIM and Kerberos.

## The services provided by CNET included:

- SSO Migration to OAM
- Identity Management
- 3rd party integration with OAM



# CHALLENGES

- One of the main problems that the CNET team faced was that R11 integration was not supported or widely recommended by Oracle.
- CNET team had to spend time resolving issues and working with different groups to check port configuration, user configuration, and Oracle Support.

# HIGHLIGHTS OF THE PROJECT

- Lycoming was thrilled with the SSO implementation as the team was able to provide an effective solution, and the project in the testing phase was very smooth.
- Lycoming was appreciative as the project was completed in a remarkably short span.

## CNET Advantage



- Single sign-on (SSO) is a property of access control of multiple related yet independent software systems. With this property, a user logs in with a single ID and password to gain access to any of several related systems
- In other words, single sign-on refers to systems where a single authentication provides access to multiple applications bypassing the authentication token seamlessly to configured applications.
- Conversely, single sign-off is the property whereby a single action of signing out terminates access to various software systems

# CNET PRODUCTS



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Seamlessly migrate between clouds with our cloud-agnostic platform that creates and manages virtual resources in minutes.



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Automatically deploy a full solution stack using a workflow-driven self-service catalog that supports DevOps efficiencies.



## Operations Management

Monitor the environment to understand capacity demands and outages, proactively take action when alerts are received.



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