

# ORACLE IDENTITY MANAGEMENT FOR HIGHER EDUCATION

## KEY FEATURES AND BENEFITS

- Most comprehensive, best-in-class identity and access management suite
- Secures applications and improves user experience
- Lowers costs of compliance
- Centralizes and automates user administration processes
- Provides a framework for standards-based authentication between security domains /institutions

*Oracle Identity Management allows higher education institutions to better serve their students, alumni, faculty, and staff. Leading edge campuses will achieve differentiation in the highly competitive student and faculty recruitment market, reduce exposure to operational risks, and comply with mounting public scrutiny and government regulations. Oracle's best-in-class functionality, standards support, and built-in application integration provide these institutions with a complete and scalable identity management infrastructure.*

## Introduction

Technology plays a crucial role in the functioning and enrichment of universities where students, alumni, faculty, and staff depend on high-tech tools to study, live, work, and play. As these institutions aggressively embrace the Internet for student services, administrative systems, research projects, self-service, and profile management, online security is at a premium. Users must feel protected for web channels to grow and enhance the user experience. At the same time, compliance mandates and university breaches become more numerous and threaten the institution's assets and brand name. Institutions that cannot meet the security demand will suffer. Oracle Identity Management helps address these pressures by:

- Centralizing application access control.
- Providing strong, multi-factor authentication.
- Providing sophisticated real-time risk analysis and access prevention based on events and rules.
- Automating routine account management activities.
- Meeting regulatory requirements for reporting and attestation.
- Enabling new modes of inter-campus interactions.
- Protecting user identity data with a secure, scalable and highly available infrastructure.
- Bridging islands of user identity information across a variety of infrastructures.

## ORACLE IDENTITY MANAGEMENT PRODUCTS

**Oracle Access Manager** delivers critical functionality for access control, single sign-on, and user profile management in the heterogeneous application environment.

**Oracle Identity Federation** enables cross-domain single sign-on with the industry's only identity federation server that is completely self-contained and ready to run out-of-the box.

**Oracle Enterprise Single Sign-On** provides users with unified sign-on and authentication across all their enterprise resources, including desktops, client-server, custom and host-based mainframe applications.

**Oracle Adaptive Access Manager** provides web access real-time fraud detection and multifactor online authentication security for the enterprise.

**Oracle Identity Manager** is a powerful and flexible enterprise identity provisioning and compliance monitoring solution that automates the creation, updating, and removal of users from enterprise systems such as directories, email, databases, and ERP.

**Oracle Role Manager** is an authoritative source for role lifecycle management that leverages business policy and organizational data to automate role based provisioning and access control.

## Access Management

Universities are being challenged to secure student, alumni, faculty, staff and constituent access to various information systems, strengthen user authentication, and simplify the user experiences across multiple applications running on heterogeneous environments. **Oracle Access Manager** delivers a highly robust solution for providing manageable, secure, access control to all web applications based on the policies of the institution. Its scalable architecture supports the largest campus portals, while its delegated administration makes it easy to distribute responsibilities for user administration to different departments and campuses.

Building federated user communities that span global university boundaries represents an opportunity to access and share research data with affiliated academic and commercial institutions. **Oracle Identity Federation** implements standards-based web technology, which makes these kinds of interactions possible.

It is important for these organizations to protect themselves and their user population from increasingly sophisticated online attacks. **Oracle Adaptive Access Manager** protects identity and other personal information through a form of mutual authentication such that a user can be sure they are transacting with their intended party before providing any confidential information. Further, if a user should fall prey to a phishing scam and inadvertently provide their username and password to a malicious party, the facility has the ability to prevent that malicious party from using the credentials by immediately stopping suspicious behavior.

## User Provisioning and Role Management

Higher education institutions also need to manage access privileges for a highly dynamic user population across a variety of systems – new students enroll each year, while a large population graduates and moves over to alumni status. **Oracle Identity Manager** meets this need by centralizing and automating the management of user accounts and access privileges within connected system resources. Roles at a university can be quite fluid, e.g., a student can also be an employee and teaching assistant. **Oracle Role Manager** allows users to be assigned privileges based on their affiliation with the institution, and re-assigns privileges as their affiliations within the organization change. Compliance features such as pre-defined “who-has-access-to-what” reports and attestation automation ease the burden of regulatory requirements – be they self-imposed or legally mandated.

## ORACLE IDENTITY MANAGEMENT PRODUCTS

**Oracle Internet Directory** is a robust and scalable LDAP V3-compliant directory service that leverages the high availability capabilities of the Oracle 10g Database platform.

**Oracle Virtual Directory** provides Internet and industry standard LDAP and XML views of existing enterprise identity information, without synchronizing or moving data from its native locations.

**Oracle Web Services Manager** is a comprehensive solution for adding policy-driven security and management capabilities to existing or new Web services.

### Directory Services

With security breaches increasingly in the news, universities need to be vigilant about protecting user identity profiles. **Oracle Internet Directory** is a secure repository for user identity data that combines the mission-critical strength of the Oracle Database with the open compatibility of the LDAP v3 directory standard, resulting in a user identity store that is scalable, secure and delivers the high availability required for campus portals.

One of the challenges of implementing security in a higher education community today is that user identity data is frequently scattered across multiple systems. Sometimes this is the result of a change of affiliation within the school system, other times it is a result of legacy information silos, and still other times this is by design to address certain privacy concerns. **Oracle Virtual Directory** supports rapid deployment of new applications by providing a real-time, virtual view of identity data from any data-store including directories, databases and Web Services, without synchronization.

### Conclusion

Oracle Identity Management offers the solutions higher education institutions need to address the unique challenges they face with an integrated, standards-based and open set of products that fit into existing infrastructures. The results are less time spent integrating disparate components and the backing of the world's largest enterprise software company. Visit [www.oracle.com/identity](http://www.oracle.com/identity) for more information.

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