

# Sun™ Identity Management

Solutions That Work in Your Environment



## Highlights

Enterprise success depends on enabling a multitude of systems and applications to work together seamlessly and securely. Sun identity management meets this need, both within and beyond the enterprise, with:

- Automated role-based provisioning, password management, and identity synchronization across diverse operating system environments
- Single sign-on for enterprise and Web applications
- Single, unified framework for authentication and policy-based authorization
- Easy, standards-based integration with other business systems, third-party security and identity management solutions



Today's enterprise is operating an increasing number of secure systems and applications — and, at the same time, moving beyond its traditional boundaries to work with more and more outside partners who have their own secure IT infrastructures. By making it possible to securely share identity information across internal and external resources, effective identity management enables secure, efficient interoperability in even the most diverse environments. Without it, secure administration and management of all these systems and applications would be a nightmare, if not an impossibility.

Integrating the operations of systems and applications within and beyond the enterprise requires the secure sharing of identity information in several specific ways.

### Protecting the security of resources

To protect the security of resources, enterprises must be able to ensure that users are who they say they are, and are authorized to use the resources to which they request access. This is one of the basic tenets of identity management. This capability must extend beyond the enterprise to include systems and applications across a variety of external partners, suppliers, and others with whom the enterprise does business online. Effective identity management includes mechanisms for sharing identity information and credentials across systems and applications, without compromising the security of either the resources being accessed or the identity information being offered.

### Providing the convenience of single sign-on (SSO)

Less than ten years ago, having a different sign-on for every resource or application was little more than a minor inconvenience for users. Today, it's not unusual for users to need secure access to hundreds of applications — and a separate sign-on for each one is untenable. That's what makes SSO such an important capability of effective identity management. It contributes widespread, secure accessibility of systems and applications by enabling users to use one sign-on for every system or application.

Effective identity management solutions offer several varieties of SSO to address increasing levels of accessibility and convenience:

- Enterprise SSO enables one sign-on for the resources within the enterprise that the user is authorized to access
- Web SSO works with standard browsers to enable one sign-on for Web applications
- Desktop SSO employs the desktop browser to leverage desktop authentication as a means of seamlessly accessing multiple resources

### Ensuring secure online collaboration

Federation goes beyond Web SSO to provide secure, streamlined access to resources across security domains. It is the key to online collaboration among enterprises and their partners today. Federated identity management uses standardization to ensure that products from disparate vendors are interoperable, which is the greatest challenge faced when enabling secure collaboration between enterprises. Federated identity management also features a variety of built-in security and privacy mechanisms to protect resources and identity information across domains.

### Sun identity management: Designed for ease of integration

Sun brings together six tightly integrated identity management products that are designed to integrate easily with a variety of systems and applications. They enable basic sharing of identity information across resources within and beyond the enterprise, deliver complete SSO capabilities, and ensure the security of resources and privacy of user information.

### Components of Sun identity management interoperability

#### Sun Java™ System Identity Manager

The Java™ System Identity Manager automatically speeds the processes of creating, updating, and deleting user accounts. Additionally, it allows customers to perform everyday identity-related tasks, such as managing their passwords, changing access privileges when their roles

change. Identity Manager performs these and other tasks across a wide range of heterogeneous applications, directories, databases, and other data stores, while synchronizing identity data .

The leader in cross-platform support for heterogeneous environments, Identity Manager runs on today's leading platforms and manages user accounts across legacy systems, business applications, Web applications, security control products, and databases. It is designed to easily integrate and connect to a variety of platforms, and currently provisions to and synchronizes data across more than 60 systems and resources. Its support for the Services Provisioning Markup Language (SPML) standard ensures that identity information can always be extended into the enterprise's Web services environment.

#### Sun Java System Identity Manager Service Provider Edition

To make it easy and cost-effective for service providers to deploy new applications, the Java System Identity Manager Service Provider Edition provides highly scalable and reusable identity services. Highly integratable, it provides federated provisioning, registration and self-administration, data synchronization, delegated administration, auditing, and reporting for a multitude of applications and identity management infrastructures.

For service providers that need to operate different back-end systems for different customer bases (wired and wireless, for example), Identity Manager Service Provider Edition is an efficient

and extremely cost-effective alternative to exchanging and managing data over the long term. This is because it enables providers to automatically correlate identities across back-end repositories during the registration/update process, creating a unified view of customers that can always be utilized to address identity synchronization and system integration. This, in turn, makes it possible to exploit increased market share by consolidating systems, while maintaining a single, seamless presence across a diverse customer base.

#### Sun Java System Access Manager

With support for Web and desktop-based SSO for a wide range of Web applications, the Java System Access Manager helps to ensure convenient, secure access to applications within the enterprise and across partner infrastructures. To ensure the delivery of essential identity and application information throughout and beyond the enterprise environment, Access Manager provides a standards-based solution for secure and scalable access to resources. It takes on the challenge of managing ever-increasing silos of identity information, eliminating the need to independently manage the access and authentication credentials associated with each one. By allowing the federating and linking of partners' trusted networks, Access Manager enables stronger, more efficient collaboration with partners and ultimately creates greater revenue opportunities.

### Sun Java System Federation Manager

Because it provides for secure management of digital identities across multiple corporate boundaries, Java System Federation Manager makes collaboration between partners and service providers possible on a large scale and at a low cost. Designed to scale infinitely and deploy easily to partners, it can be used to create application security mechanisms that are infinitely reusable and make authentication and access solutions interoperable across diverse operating environments.

Before the development of Federation Manager, approaches to federation were inherently limited by an inability to extend key capabilities to unlimited numbers of partners. They could be used to share information or technology between two entities, but could not easily scale to include more. Federation Manager is the first solution to deploy a reusable mechanism for quickly and efficiently establishing multiple trusted relationships within networks of partners and service providers.

Like all Sun identity management products, Federation Manager is based on standards. It provides the broadest support for federation standards available today, including the Security Assertion Markup Language (SAML), Liberty Identity Federation Framework, and Liberty Identity Web Services Framework.

### Sun Java System Directory Server Enterprise Edition

The Java System Directory Server Enterprise Edition provides a central repository for storing and managing identity profiles, access privileges, and application and network resource information from multiple sources. It integrates smoothly into multiplatform environments, ensuring interoperability with existing infrastructures and applications. Directory Server Enterprise Edition supports the Lightweight Directory Access Protocol (LDAP) versions 2 and 3, plus popular extensions including server-side sorting, persistent search, and virtual list view. A specific strength is bidirectional synchronization of user information with Active Directory, which simplifies secure password synchronization with Microsoft Windows environments. This, in turn, helps lower costs by reducing calls to the help desk from Microsoft Windows users for password support.

### Sun Java System Identity Auditor

Designed to support heterogeneous technology environments and third-party platforms, the Java System Identity Auditor streamlines and automates the processes associated with proving compliance with the increasing number of laws governing enterprise integrity and security. It easily integrates with existing enterprise applications and identity management infrastructures, and is the first solution to link identity management and security event management (SEM) to enforce enterprise security policy.

### Identity management to meet diverse, real-world requirements

A major North American transportation company relies on Sun identity management to help meet its business objectives within a highly diverse technology environment. The company's managed resources include IBM AIX, IBM RACF security platforms, Windows 2000, Windows NT, and Microsoft Exchange. Business objectives impacted by Sun identity management include:

- **Reduced costs.** The company is lowering IT support costs by using Access Manager to enable Web SSO across multiple resources in numerous distinct operating divisions. SSO streamlines password management, reducing the need for costly help desk assistance. In addition, as part of its effort to standardize on Active Directory, the company employs the open, scalable Directory Server Enterprise Edition, which synchronizes seamlessly with Active Directory using Identity Synchronization for Windows. This type of directory initiative eliminates the need to maintain multiple directories, significantly reducing administrative costs.

- **Increased efficiency.** In an IT environment this diverse, the ability to integrate easily with multiple resources is critical to efficient operation. The company uses Identity Manager to automate user provisioning of diverse resources in a fraction of the time it used to spend on manual provisioning. Sun identity management helps the company streamline the entire process of securely tracking, changing, and removing access to sensitive data in diverse resources. As a result, operational efficiency increases, administrative demands are reduced, and compliance with auditing requirements is improved.

#### **Systems and applications compatibility**

Sun's identity management offerings include more than 60 out-of-the-box resource adapters to enable provisioning and identity synchronization with directory servers, databases, mainframes, operating systems, messaging platforms, Web access control products, and enterprise applications. More than 30 policy agents enable SSO and access control across multiple platforms, applications, and domains.

#### **End-to-end identity management from Sun**

Identity management is now a focal point of successful IT infrastructures, and Sun's identity management solutions are uniquely positioned to address these requirements. Sun provides a complete, end-to-end identity management product line that reduces cost and complexity, and scales to meet growing enterprise and extranet requirements. Because the ability to work with diverse applications and systems is

critical to effective identity management — both within the enterprise and in collaboration with outside partners — Sun is committed to enabling integration and interoperability. Today, all Sun identity management products are designed to be easily integrated with other business systems, as well as with third-party security and identity management solutions.

#### **Commitment to standards**

Since the earliest days of identity management technology, Sun has made significant resource contributions to define standards and incorporate them into its identity management products. These efforts foster openness and interoperability, while protecting existing and future technology investments. Through participation in organizations such as OASIS and the Liberty Alliance Project, Sun fully supports the adoption of open standards and is committed to producing ground-breaking solutions that push the boundaries of innovation. At the same time, Sun strives to ensure that its technology is built upon and fully integrated with established and emerging standards.

#### **Serious software made simple**

Sun provides a complete portfolio of affordable, interoperable, and open software systems designed to help you maximize the utilization and efficiency of your IT infrastructure. Built from the secure, highly available foundations of UNIX™ and Java, these systems deliver implementations that are preintegrated and backward compatible.

Sun's portfolio consists of Solaris and Linux software for SPARC® and x86 platforms, the N1 Grid platform for dynamic and utility computing, and the Java Enterprise System — integrated software systems for the data center, the desktop, the developer, mobile devices, and identity implementations.

The Java Enterprise System runs as part of the Solaris Enterprise System, the only comprehensive and open infrastructure software platform available today. Only Sun has the experience and the end-to-end portfolio to deliver this unique and industry-revolutionizing strategy. With the Solaris Enterprise System, you get award-winning, enterprise-class software — with the flexibility to deploy whatever you need to address your business requirements on multiple OS platforms. You can download it now at [www.sun.com/software/solaris/](http://www.sun.com/software/solaris/) and use this sophisticated infrastructure software at no cost. And, once you need assurance and support, Sun offers licensing and support plans for purchase.

#### **For more information**

To learn more about Sun identity management solutions and how they work in every environment, please visit [www.sun.com/identity](http://www.sun.com/identity).

# Sun™ Identity Management

## Capabilities at a glance

Refer to “Supported Software and Environments” of Release Notes for specific versions and new releases of each product.

### Operating Systems

- IBM AIX
- IBM OS/400
- HP-UX
- HP OpenVMS
- Microsoft Windows
- Solaris™ OS
- Red Hat Linux
- Novell SuSe

### Application Servers

- Apache Tomcat
- BEA WebLogic
- IBM WebSphere
- Java System Application Server

### Browsers

- Internet Explorer
- Safari
- Mozilla™
- Firefox
- Netscape™

### Database Servers

- IBM DB2 Universal Database
- Microsoft SQL Server
- MySQL
- Oracle®

### Directories

- LDAP
- Active Directory

- Novell eDirectory
- Open LDAP
- Java System Directory Server Enterprise Edition

### Customer Relationship Management

- Siebel

### Enterprise Resource Planning

- Oracle Financials
- Peoplesoft PeopleTools
- SAP R/3

### Help Desk

- Remedy Help Desk

### Message Platforms

- Blackberry RIM Enterprise Server
- Java System Messaging and Calendar Service
- Lotus Notes
- Microsoft Exchange
- Novell GroupWise

### Security Managers

- Actividentity
- Etrust CA-ACF2 Security
- Natural
- IBM RACF
- INISafe Nexess
- RSA SecurID

### Web Access Control

- IBM Tivoli Access Manager
- Actividentity
- Netegrity Siteminder
- RSA ClearTrust

## Learn More

Stay connected to Identity Management news and trends by joining the Sun Identity Insights Program. As a member you will receive an e-newsletter, exclusive invitations to net talk events, and expert exchanges, plus you will get information on upcoming events and special offers. Join now at [www.sun.com/identity/subscribe](http://www.sun.com/identity/subscribe).

- Java System Identity Server
- Java System Access Manager

### Web Servers

- Apache
- Microsoft Internet Information Server
- Java System Web Server

### Industry Standards

- Liberty Alliance
  - Liberty Identity Federation Framework (ID-FF)
  - Identity Web Services Framework (ID-WSF)
- OASIS
  - Security Assertion Markup Language (SAML)
  - eXtensible Access Control Markup Language (XACML)
  - Service Provisioning Markup Language (SPML)
  - Directory Services Markup Language 2.0 (DSML)
- LDAP