

Sun Java™ System Identity Management

Delivering End-to-End Identity Management Services



Highlights

By providing open, secure, and comprehensive identity management capabilities for the enterprise, Sun's identity management solutions provide the foundation on which to build new electronic business opportunities, reduce security risks, and lower administration costs. Key features include:

- Highly modular and “integratable” identity management solutions to reduce integration costs and enable rapid deployment
- Centralized visibility and control to better enforce security policy across divisions and departments
- Enterprise-wide identity auditing and reporting to assist with corporate policy and legislative compliance
- A consistent approach to administering identities and access privileges to reduce complexity and risk
- An end-to-end identity management solution that reduces total cost of ownership (TCO)



Effectively managing user identities and their access to enterprise resources has become a critical requirement for competing in today's business environment. Organizations are increasing the number of customers, employees, partners, and suppliers that are allowed access to critical information resources, yet at the same time they must protect sensitive data. The challenge is to open up the enterprise to new ways of conducting business while simultaneously ensuring that its information assets remain secure.

Sun's identity management solutions streamline and simplify the process of managing user identities across all varieties of computing infrastructures and application environments. They eliminate costly manual approaches to creating, maintaining, and deleting identity data, enabling organizations to increase accessibility while maintaining tight security. To help ensure compliance with regulatory requirements, Sun's identity management offerings provide centralized control, complete visibility into access privileges, and consistent enforcement of identity management policies.

Sun's identity management solution delivers superior end-to-end identity management capabilities. It provides all of the core functions and services required by enterprises to use, share, and manage identity information, and includes the following products:

- Sun Java™ System Identity Manager, for provisioning, password management, profile management, and identity synchronization
- Sun Java System Access Manager, for access control, single sign-on, and federation
- Sun Java System Directory Server Enterprise Edition, for directory services, security and failover, and password synchronization with Microsoft environments

Highly modular and integratable

Sun's identity management product line is highly modular and “integratable.”

Organizations can choose to:

- implement the fully integratable set of products,
- easily integrate third-party solutions, or
- phase in the elements of a complete identity management solution over time.

With over 70 different resource adapters and policy agents available as part of the product family, Sun's identity management offerings make interoperability simple and affordable, decreasing integration costs, reducing deployment times, and maximizing the value of prior technology investments.

All the services required for complete identity management

Sun's identity management solution includes three component products that deliver all the core functions and services required by enterprises to use, share, and manage identity information.

Java System Identity Manager — managing identity profiles and permissions throughout the entire identity lifecycle

Java System Identity Manager provides the industry's first converged user provisioning and meta-directory solution, including all the capabilities needed to manage identity

Sun's modular and integratable identity management offerings help ensure the seamless exchange of identity data.

profiles and permissions in a manner that streamlines operations and enhances enterprise security. Through the use of automation, delegation, and self-service, it reduces operating costs and relieves overburdened administrative and help desk personnel. Using a noninvasive architectural approach that imposes minimal change on the existing technology environment, Identity Manager greatly speeds deployment and improves ROI.

By replacing ad hoc manual processes with fully automated management of the user lifecycle process, Identity Manager greatly reduces the time it takes to get users up and running productively, to change their access privileges as their roles change, and to instantly and securely revoke their accounts when relationships with the company end. Role- and rule-based provisioning provides the flexibility to set provisioning rules on users, organizations, resources, roles, or groups, which ensures that policies are enforced. Dynamic workflow supports multistep, complex provisioning and automates the process of making changes in identity data. Identity Manager also provides complete visibility into and control over user access privileges.

By automatically synchronizing identity data across a wide range of heterogeneous applications, directories, databases, and other data stores, Identity Manager ensures that identity data used by people and applications is accurate and consistent, enabling better decision making. Identity Manager uses transformation rules, data flow mapping, and data joins so that dissimilar schemas can be mapped to any type of data source, thereby protecting existing infrastructure investments in the enterprise. Administrators can define the authoritative data source for any identity, accommodating the real-world need for distributed ownership

of data without sacrificing up-to-date information across the enterprise. For enterprises that are adopting directory-centric architectures to simplify their IT environments, Identity Manager also automates migration of identity data from existing data sources into a directory-based infrastructure.

Java System Access Manager — delivering open, standards-based access control across intranets and extranets

Java System Access Manager helps organizations manage secure access to Web applications — both within the enterprise and across business-to-business (B2B) value chains. By utilizing a central point of authentication, role-based access control, and single sign-on (SSO), Access Manager provides an effective and scalable security model across all Web-based applications, simplifying the exchange of information and transactions while protecting the privacy and security of vital identity information.

Access Manager protects resources from intrusions and unauthorized access with real-time auditing of any such events. It also creates well-defined, repeatable, and auditable security processes that can be enforced enterprise-wide based on user identities.

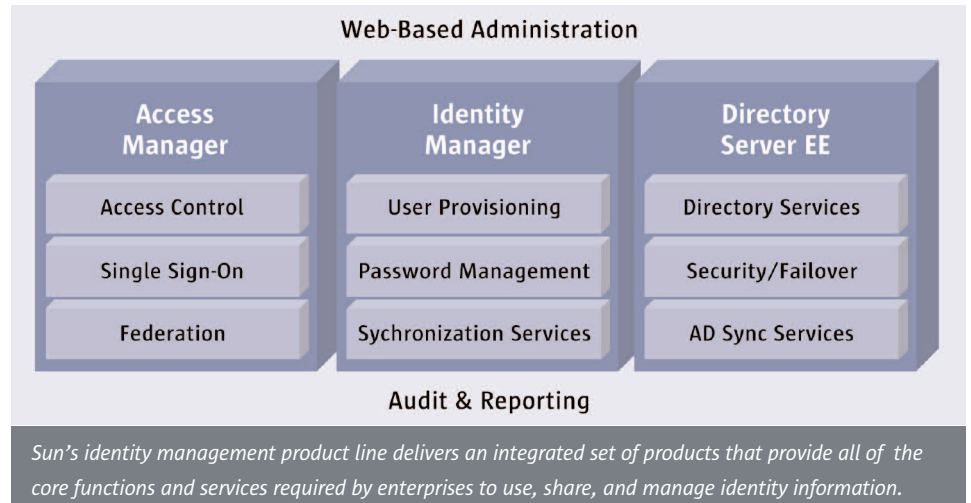
By offering SSO for heterogeneous environments — including Microsoft Windows — Access Manager simplifies the authentication and authorization process, increasing usability while still maintaining security. It also fully exploits the convenience of SSO and device independence to make information easily accessible and securely deliverable — at any time, anywhere, on any device.

Access Manager is the first commercially-available product that supports the latest federation standards, including the Liberty Alliance Phase 2 and Security Assertion Markup Language (SAML) 1.1 and 2.0 specifications. Its support of these standards helps create a federated framework and authentication-sharing mechanism that is both easy to use and interoperable with existing enterprise systems. Access Manager enables new e-business opportunities, from portals to Web services, by efficiently enabling trusted networks between existing and new business partners, and thus, ultimately providing new revenue-generating opportunities.

Java System Directory Server Enterprise Edition — providing secure, highly available, scalable, and easy-to-manage directory services

Java System Directory Server Enterprise Edition provides a secure, highly available, scalable, and easy-to-manage directory infrastructure for storing and managing identity data — from entry-level to large-scale deployments. With multi-master replication, load balancing, and automatic failover, it delivers enterprise-class availability around the clock. Directory Server Enterprise Edition's implementation of leading directory services standards ensures interoperability today and into the future.

Directory Server Enterprise Edition delivers superior scalability, which helps to reduce operational costs by decreasing the total number of systems that must be deployed. It also reduces costs by centralizing identity information and making it consistently available to multiple applications, instead of having each application store and maintain its own data in multiple locations. On-demand password synchronization between Microsoft



Windows environments and Directory Server Enterprise Edition further lowers costs by reducing calls to the help desk for password support.

To enhance security, Directory Server Enterprise Edition provides proxy services for firewall-like protection against malicious attempts to compromise directory servers. The proxy services act as a front end to prevent denial-of-service (DoS) attacks and access by unauthorized users. Nonintrusive, on-demand password synchronization with Microsoft Windows Active Directory increases security by ensuring that password policies enforced on the network operating system are also enforced in key strategic directories within the enterprise. Directory Server Enterprise Edition further improves security by providing the ability to deny or allow access based on IP address, group membership, and other criteria.

For improved manageability, Directory Server Enterprise Edition includes wizards for creating additional databases and replication agreements, making both tasks much easier for novice and experienced users alike. In addition, a new intuitive, Web-based administration interface is provided to manage users, groups, and organizational units. Directory Server Enterprise Edition also allows individual back-end directory servers to be taken down for maintenance without affecting directory service availability. Most management operations that can be performed on the directory while offline — such as backup, bulk import, and reindexing — can also be performed while online, maximizing availability.

Java System Identity Management Capabilities at a Glance

Capability	Benefit
<ul style="list-style-type: none"> • End-to-end, unified identity management product family 	<ul style="list-style-type: none"> • Reduces administrative costs through common interfaces and by eliminating functional overlap • Reduces errors, redundancies, and incompatibilities in identity data • Reduces development and integration costs by leveraging a common set of connectors and system services
<ul style="list-style-type: none"> • Single point of control and enforcement • System-wide auditing and reporting • Centralized visibility 	<ul style="list-style-type: none"> • Lowers risk of a corporate security breach or asset loss • Helps to ensure compliance with corporate policies and legislative mandates • Allows consistent security across divisions and departments
<ul style="list-style-type: none"> • Standards-based interfaces and built-in interoperability • Modular, “integratable” components • Over 70 resource adapters and policy agents 	<ul style="list-style-type: none"> • Provides the flexibility to adapt easily to existing technology investments • Eliminates the need for custom integration • Enables staff to focus on new business functionality instead of product integration
<ul style="list-style-type: none"> • Enterprise-class scalability and reliability • Proven, mature customer deployments 	<ul style="list-style-type: none"> • Ensures that identity data is always available and protected from security attacks • Easily scales to handle new business and technical requirements • Enables organizations to buy with confidence
<ul style="list-style-type: none"> • Comprehensive identity management product line from Sun 	<ul style="list-style-type: none"> • Reduces total cost of ownership • Simplifies software acquisition
<ul style="list-style-type: none"> • Identity Manager — Superior, integrated user provisioning and identity synchronization services 	<ul style="list-style-type: none"> • Enhances security • Lowers costs • Improves productivity
<ul style="list-style-type: none"> • Access Manager — Secure, standards-based access management 	<ul style="list-style-type: none"> • Improves security • Enhances user experience • Increases revenue opportunities • Reduces administrative costs
<ul style="list-style-type: none"> • Directory Server Enterprise Edition — Industry-leading directory capabilities and highly available, scalable, manageable, and secure services 	<ul style="list-style-type: none"> • Enhances security • Lowers costs • Provides investment protection • Reduces IT complexity • Improves manageability

Interoperability

Integrating and exchanging identity data between applications is critical to identity management. Sun's identity management product offerings are designed to facilitate this interoperability with other business systems as well as with third-party security/identity management solutions. The modular and integratable nature of the products helps ensure seamless application integration and exchange.

Sun's identity management offerings include over 40 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 from SAP, PeopleSoft, and Oracle. To enable SSO and access control across multiple platforms, applications, and Internet domains, Sun's identity management offerings include over 30 policy agents that protect content on resources spanning the Apache, BEA, IBM, Lotus, Microsoft, Oracle, PeopleSoft, and SAP platforms.

Commitment to standards

Sun makes significant resource contributions to define identity management standards and incorporate these standards into Sun's identity management products. These efforts foster openness and interoperability, and help to protect existing and future technology investments. Sun identity management standards activities include serving as:

- Cofounder, former chair, and current secretary of the Organization for the Advancement of Structured Information Standards (OASIS) Security Services technical committee and a leader in defining and promoting the Security Assertion Markup Language (SAML)
- Management board member of the Liberty Alliance Project and one of first vendors to earn usage of the 'Liberty Alliance interoperable' logo
- Chair of the OASIS Provisioning Services Technical Committee (PSTC) and a major contributor to the development of the Service Provisioning Markup Language (SPML) specification; first provider of open source SPML toolkit
- Secretary of the OASIS eXtensible Access Control Markup Language (XACML) technical committee and a leader in defining the specification and releasing an open source version of XACML 1.0
- Board member and vice-chair of the Basic Security Profile Working Group of the Web Services Interoperability Organization (WS-I)
- Coauthor of the Lightweight Directory Access Protocol (LDAP) v3 technical specification and one of first vendors to develop a product based on the Directory Services Markup Language (DSML) 2.0

Complete identity management with software services and support

Sun Services provides customers with technical support, software maintenance, installation services, custom consulting, and comprehensive education to ensure a smooth transition and integration of the Sun's identity management products into their enterprise.

Sun software support services

Sun's identity management products are available with ongoing technical support and software maintenance, with full access to updates and upgrades. These services are part of the Sun Software Standard Support Services offering. Also, for an additional fee, customers can upgrade to Sun Software Premium Support Services to add 24x7 online and telephone technical support, as well as live call transfer for urgent cases.

Sun services education

Sun offers a comprehensive portfolio of learning products designed to reduce complexity and optimize IT investments by helping to ensure that staff members are properly skilled and certified in the use, implementation, and management of Sun's identity management products.

Sun consulting services

Sun's consulting services help customers architect, implement, and manage their identity management environment. Sun Services offer comprehensive architecture, implementation, and management services and methodologies that enable customers to take full advantage of Sun's identity management products.

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 the growing requirements of enterprises and service providers.

- Identity Manager provides the core user provisioning and identity synchronization services of Sun's identity management solutions.
- Access Manager enables these entities to securely and more easily manage access privileges across business boundaries, preparing them for the emergence of Web services as a preferred way to deliver products and services.
- Directory Server Enterprise Edition addresses the directory challenges that many organizations face today by providing a centralized repository for identity data along with value-added services that improve security, availability, scalability, and manageability.

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, Sun N1™ software, and the Sun Java System — five integrated software systems for the data center, the desktop, the developer, mobile devices, and identity implementations.

About Sun Microsystems, Inc.

Since its inception in 1982, customers have continually turned to Sun to help them grow their business, lower their costs, and gain competitive advantage. Sun is a leading provider of industrial-strength hardware, software, services, and technologies that make the Net work.

Components, platforms, and requirements

The following components comprise Sun's identity management family:

- Java System Identity Manager
- Java System Access Manager
- Java System Directory Server Enterprise Edition

For details on the operating systems, platforms, and system requirements, please refer to the individual product datasheets.

For more information

To learn more about Sun's identity management solutions, visit sun.com/identity

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