

Sun Identity Management

Delivering simple, open, and proven solutions



Highlights

Opens your enterprise to new, collaborative business opportunities while enabling compliance, streamlining operations, and improving security. Sun's market-leading identity management portfolio provides:

- User provisioning
- Password management
- Role management
- Access control compliance
- Web single sign-on (SSO)
- Federated SSO
- Directory services
- Virtual directory



As organizations see increasing demand for access to resources by employees, customers, and even business partners beyond their traditional boundaries, the need to open up access to more users in more ways — without compromising security — becomes increasingly clear. It's vital to make identity management an everyday, ongoing part of an organization's daily operations by effectively and securely managing user identities throughout the extended enterprise.

A comprehensive, pragmatic approach to identity management addresses a number of key business challenges for the enterprise:

- **Cost reduction** — Automate slow, error-prone manual processes for provisioning and auditing
- **Compliance** — Provide comprehensive auditing, reporting, and access certification capabilities
- **Security** — Deliver comprehensive, current information about who has access to what applications and data
- **Data protection and privacy** — Provide secure control of access to information and resources
- **Fast time to market** — Accelerate the processes of sharing access with business partners
- **Revenue growth** — Speed the deployment and delivery of new services from multiple partners
- **Improved service levels** — Enable powerful user self-service and single sign-on (SSO) capabilities

A flexible, scalable portfolio of products

Sun's identity management portfolio provides everything an organization needs to manage, protect, store, verify, and share identity information throughout the enterprise and across

extranets. It features capabilities for provisioning resources, controlling access, managing directory services, delivering identity auditing data, and creating reusable identity administration services to streamline collaborative application development. To support outsourcing and other types of interaction among enterprises, Sun's portfolio also delivers federation capabilities for sharing identity information and services across domains.

Sun's market-leading identity management portfolio includes:

- **Sun Identity Manager** — Provides provisioning, password management, profile management, identity synchronization, and ongoing auditing of potential compliance violations
- **Sun Role Manager** — Enables comprehensive role lifecycle management, including role engineering, ongoing role maintenance, and role certification by business unit managers or role owners
- **Sun Identity Compliance Manager** — Automates the access certification process that is essential to compliance with external regulations and internal security policies
- **Sun OpenSSO Enterprise** — Provides internal and external access management, including Web access management, federated SSO, and Web services security

- **Sun Directory Server Enterprise Edition** — Delivers complete directory services, including virtual directory capabilities and password synchronization with Microsoft environments
- **Sun OpenDS Standard Edition** — Provides complete directory services delivered in an open source-based, commercially available, fully supported product

A complete, integrated, and modular solution

Sun identity management products are designed to integrate with each other seamlessly and at the same time be deployed modularly. This means that organizations can choose to implement the full portfolio or phase in the components over time, in whatever order best serves their business priorities.

Sun's identity management portfolio helps ensure seamless, secure exchange of data throughout the enterprise and across extranets.

Because interoperability between applications is critical, Sun identity management products are easily integratable with other business systems as well as with third-party security and identity management solutions. They're designed to decrease integration costs, reduce deployment times, and maximize the value of existing technology investments with:

- More than 60 out-of-the-box agentless resource adapters that 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
- More than 30 policy agents to protect content on resources spanning the Apache, BEA, IBM, Lotus, Microsoft, Oracle, PeopleSoft, and SAP platforms, enabling SSO and access control across multiple platforms, applications, and domains

Comprehensive identity management

Sun's identity management portfolio includes six components designed to meet an enterprise's complex requirements for provisioning and auditing, role management, access management, and directory services within and beyond traditional enterprise boundaries.

Sun Identity Manager — Reducing provisioning and support costs while automating auditing activities

Identity Manager provides the industry's first converged user provisioning and identity auditing solution. It replaces ad hoc manual approaches with a solution that fully automates the management of the complete user lifecycle, leveraging business roles to improve both provisioning and auditing in the process. This comprehensive approach reduces not only administrative costs but also the risk of non-compliance with government regulations and internal policies.

By automating provisioning processes, Identity Manager makes it possible to create thousands of new accounts and perform thousands of account updates per minute. This dramatically reduces the time required to get users up and running productively, change access privileges as users' roles change, extend capabilities to extranet environments, and instantly and securely revoke accounts when relationships with the enterprise end.

Automated synchronization of identity data in multiple applications, directories, databases, and other data stores enables Identity Manager to keep identity data accurate and consistent across the enterprise and extranets. The solution's use of automation also reduces operating costs and relieves overburdened administrative and help desk personnel. And by employing a noninvasive architectural approach that imposes minimal change on the existing technology environment, Identity Manager dramatically speeds deployment, improves return on investment (ROI), and supports scalability to millions of users.

The integration of provisioning and auditing reduces the risk of noncompliance by enabling the enterprise to see not only what users should have access to, but also what they actually have access to. Through seamlessly integrated provisioning and auditing capabilities, Identity Manager identifies compliance violations as well as potential violations associated with that access and initiates remediation automatically — without requiring any further manual action on the part of administrators.

Sun Role Manager — Streamlining access control and identity compliance by engineering and managing roles

Role Manager enables organizations to use role engineering and role lifecycle management to simplify the assignment, attestation, and auditing of user's access. By basing access management on users' roles rather than on an individual user basis, Role Manager makes it easy to track who is accessing what data and which applications and whether actual access is consistent with security policies.

With Role Manager, administrators can automate the complete role life-cycle: *define* roles based on top-down and bottom-up approach, *refine* them over time as the organization changes, and *verify* their completeness and accuracy. The software automatically adapts to users' changing roles, enabling accurate tracking of access regardless of how much or how rapidly those roles and relationships change.

By automating role life-cycle management, Role Manager helps enterprises to increase operational efficiency, reduce the risk of non-compliance with policies and regulations, and eliminate unnecessary costs associated with traditional manual processes for creating and managing roles.

Sun Identity Compliance Manager — Achieving identity compliance cost-effectively

Identity Compliance Manager automates challenging compliance-related tasks such as access certification and segregation of duties (SoD) policy enforcement. Automation streamlines the work associated with these tasks and enables sustainable, repeatable audit processes that can be used every time a new regulation or policy is introduced — instead of always starting from scratch.

Eliminating slow, manual processes for consolidating and correlating identity access data, Identity Compliance Manager automatically gathers the information and presents it to the appropriate business owner for review. Certification may be scheduled flexibly or triggered automatically based on user life-cycle events (such as onboarding, job transfer, promotion, etc.).

To enforce SoD and other security policies, Identity Compliance Manager first defines policy by leveraging the identity and access data that it collects from across the enterprise. Then it continually monitors actual user access against that policy and generates requests for corrective action whenever anomalies are detected.

Identity Compliance Manager also delivers a number of dashboards and reports to the information process owners to ensure that the proper controls are always in place and that compliance evidence is being collected as scheduled.

Sun OpenSSO Enterprise — Making it easier to deliver online access without compromising security

OpenSSO Enterprise helps organizations manage secure access to resources — both within the enterprise and across extranets. It is the only access management solution that addresses every aspect of the SSO challenge, providing secure Web access management, federated SSO for collaboration with business partners, and Web services security, all in a single, self-contained Java application.

Optimized for both internal Web access management and extranet authentication, OpenSSO Enterprise makes it possible to enforce SSO policy in a repeatable, scalable manner, which helps keep operational costs down as access management requirements grow. The solution also includes a fast, lightweight federation capability that allows companies to be connected with each other in minutes. It also extends security beyond Web applications to Web services, enabling the enforcement of a comprehensive security policy across the enterprise.

By offering SSO for heterogeneous environments (including Microsoft Windows), OpenSSO Enterprise streamlines the authentication and authorization process, providing a simpler, more secure, user experience. The solution is integratable with a broad array of Web and Java Platform, Enterprise Edition (Java EE) applications, making it easier to control user access to resources and to integrate with leading enterprise SSO solutions to secure all aspects of user access.

Based on technologies developed in the open-source OpenSSO community, OpenSSO Enterprise is the first commercially available single sign-on product to offer all the advantages of open source — such as extensive collaboration and rapid access to innovation — in a fully supported commercial solution.

Sun Directory Server Enterprise Edition — Improving operational efficiency with secure, reliable directory services

Directory Server Enterprise Edition provides a highly available, scalable, and secure directory service for storing, retrieving, and managing identity data — from entry-level to large-scale deployments. With multimaster replication, load balancing, and automatic failover, it delivers enterprise-class availability around the clock.

Additionally, Directory Server Enterprise Edition allows individual back-end directory servers to be taken down for maintenance without affecting directory service availability. Most management operations that are usually performed on the directory while offline — such as backup, bulk import, and reindexing — can also be performed while online.

By delivering superior scalability, Directory Server Enterprise Edition helps to reduce operational costs by decreasing the total number of systems that must be deployed. With virtual directory, it also reduces costs by centralizing and transparently aggregating 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 capabilities between Microsoft Windows environments and Directory Server Enterprise Edition further lowers costs by reducing help desk calls 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. 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. A powerful Web-based console allows management of the overall service, not just the servers.

Sun OpenDS Standard Edition — Delivering the benefits of open source in a fully supported commercial offering

OpenDS is the world's first commercially available, pure Java technology-based directory server derived from innovations developed in the open source OpenDS community. It offers organizations of all types and sizes the benefits associated with open source — such as community-based innovation and rapid development cycles — in a fully supported, indemnified, commercial offering.



The Sun identity management portfolio includes products for providing secure access to multiple enterprise resources and extending identity management across domains in the collaborative enterprise.

Available as either a standalone solution or an embeddable product, OpenDS comes embedded in OpenSSO Enterprise. This simplifies deployment by allowing directory services to be implemented as part of the access management solution rollout.

Industry-leading, complete identity management

Identity management is now a focal point of successful IT infrastructures, and Sun's identity management solutions are uniquely positioned to address identity requirements in the infrastructure. Recognized as an identity management leader in a number of analyst reports, 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.

Commitment to standards

Since the earliest days of development in identity management technology, Sun has been making significant resource contributions to define identity management standards and incorporate them into its identity management products. These efforts foster openness and interoperability while protecting enterprises' existing and future technology investments.

Capabilities at a glance

Sun's identity management portfolio includes a complete, integrated set of products to provide comprehensive, end-to-end identity management capabilities.

Feature	Capability	Benefit
<i>Identity Manager</i> —Superior, integrated provisioning and identity auditing services	<ul style="list-style-type: none"> • User provisioning • Password management • Data synchronization services • Access auditing with Automated remediation 	<ul style="list-style-type: none"> • Automates manual processes • Streamlines operations • Increases efficiency and creates a single presence across customer base • Creates audit trail and facilitates compliance
<i>Role Manager</i> —Automated role management capabilities for consistent access control compliance	<ul style="list-style-type: none"> • Role engineering • Role maintenance • Role certification 	<ul style="list-style-type: none"> • Reduces costs • Increases efficiency • Improves business-IT alignment • Enhances audit effectiveness
<i>Identity Compliance Manager</i> —Automated access certification and policy enforcement	<ul style="list-style-type: none"> • Access certification • Access monitoring Against SoD policy 	<ul style="list-style-type: none"> • Reduces costs • Reduces compliance risk
<i>OpenSSO Enterprise</i> —Secure, standards-based access management	<ul style="list-style-type: none"> • Web access management • Federated SSO • Web services security 	<ul style="list-style-type: none"> • Enhances security • Improves user experience • Fosters interoperability
<i>Directory Server Enterprise Edition</i> — Industry-leading directory capabilities and highly available, scalable, manageable, secure directory services	<ul style="list-style-type: none"> • Directory services • Failover/failback • Password synchronization with <ul style="list-style-type: none"> • Microsoft • Active Directory • Virtual directory 	<ul style="list-style-type: none"> • Strengthens security • Increases reliability • Enables seamless integration with operating environment • Aggregates identity data
<i>OpenDS Standard Edition</i> —Directory server with the advantages of open source development	<ul style="list-style-type: none"> • Directory services • Advanced replication, backup and restore, CLI • Embedded in OpenSSO 	<ul style="list-style-type: none"> • Strengthens security • Increases flexibility and simplifies configuration • Enables seamless deployment and administration

Sun services and support

Sun provides complete consulting services and support to ensure a smooth transition and integration of Sun identity management products into the enterprise.

The Sun Identity Management Practice is led by a proactive services and enablement team that helps partners architect and manage identity management environments. With proven expertise in comprehensive services methodologies as well as best practices for effective identity management, Sun's services and enablement team provides broad assistance in using identity management to build a secure enterprise.

Sun teams with business consulting and systems integration firms to help organizations control costs, improve productivity, and enhance security using Sun identity management solutions and services. Consulting partners are global, national, or regional in scope and primarily focus on the consulting services for successful Sun identity management deployments.

With the Sun Standard Support Services offering, Sun's identity management products are available with ongoing technical support and software maintenance, including full access to updates and upgrades. Sun customers can upgrade to Sun Software Premium Support Services, which adds 24x7 online and telephone technical support as well as live call transfer for urgent cases.

About Sun

A singular vision, The Network is the Computer™, drives Sun in delivering industry-leading technologies that focus on the whole system — where computers, software, storage, and services combine. With a proven history of sharing, building communities, and innovation, Sun solutions create opportunities, both social and economic, around the world. You can learn more about Sun at sun.com.

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