

Sun™ Role Manager Software

The complete solution for simplified access control compliance



Highlights

Comprehensive role lifecycle management and identity compliance capabilities to streamline operations, enhance compliance, and reduce costs.

- Integrated set of technologies and methodologies for role-based access control and identity-based controls automation
- Continuous monitoring to scan for role versus actual assignments, segregation of duties, and other access-related exceptions that may signal potential policy or regulatory violations
- Extensive analysis and reporting on role changes, policy violations, and potential role refinements
- Integration with market-leading provisioning solutions
- Extract, transform, and load (ETL) capabilities to pull data from any enterprise resource without the time and cost of using connectors



With the explosive growth in networked communications and collaboration, today's enterprises can work closely and productively with more people in more places — and in more ways — than ever before. While this opens up remarkable business opportunities, it also creates unprecedented challenges for access governance and access control compliance.

You can effectively manage access and consistently achieve access control compliance when the number and nature of users is in constant flux by managing access based on users' roles within your enterprise rather than on an individual, user-by-user basis. By creating roles based on usage and enterprise policies, you can gain greater visibility into access and manage it in a more efficient, secure, and compliant manner.

Role-based access control, particularly in combination with identity provisioning, enables you to improve efficiency and security by always:

- Knowing who is accessing what data and which applications
- Understanding who approved the access assigned to users
- Evaluating the assigned access against access-control policies

Sun™ Role Manager software

Today's access environments are dynamic and complex. Sun Role Manager software provides market-leading capabilities for engineering and managing roles (role lifecycle management) and automating critical identity-based controls. Here's how it works:

1. A central repository called the identity warehouse is created and contains all users and their access permissions or entitlements.

2. Data is imported from the identity warehouse and a basic organizational framework is defined.

3. User-to-manager and manager-to-entitlement relationships are reviewed and certified for accuracy. This is critical to ensuring that the data leveraged for role engineering is consistent and accurate. Once this step is complete, your organization can immediately begin realizing benefits from the automation of the access-certification control and the ability to answer the fundamental question of who has access to what.

4. Once the entitlement repository is built and the user, access, and policies have been approved, role mining techniques are utilized to analyze user access patterns and define roles based on how employees are currently using their access permissions.

With roles defined, assigned, and certified, Sun Role Manager continues to deliver value throughout the user access lifecycle by:

- Automating the ongoing user access-certification process for both managers or application owners at either the fine-grained entitlement level or via roles
- Reporting regularly on actual versus assigned access, segregation of duties violations, and where the potential for other violations of access policy exists so that management can take timely remedial action

- Providing a dashboard for auditors to view the status of access certifications across your enterprise, including all applications and business units, thus limiting the time auditors need to spend uncovering this information manually
- Enabling changes in access based on changes in users' roles when they assume new job responsibilities within the enterprise to minimize the disruptive effects of change on user productivity

A multifaceted approach to increasing operational efficiency

Sun Role Manager improves operational efficiency by simplifying and automating access-related processes and bridging the gap between the IT infrastructure and the business organization.

Regardless, determining resource needs on an employee-by-employee basis wastes an enormous amount of time that could be spent more productively. Sun Role Manager eliminates problems like these by managing access based on roles and automating all related processes.

Your organization can also improve operational efficiency by using Sun Role Manager to bring the IT infrastructure and the business organization closer together and provide them with a common vocabulary. This is the result of mapping business roles to the underlying entitlements that are granted within enterprise applications. The establishment of a common vocabulary ensures that the roles reflect how responsibilities are assigned within your organization, which makes it easier for employees to request the access necessary to do their jobs.

An invaluable tool for improving security and compliance

Sun Role Manager continuously monitors users' actual access to resources rather than just reporting on the access to which their roles entitle them. By reducing the risk of improper access, your organization is less likely to violate enterprise security policies or external regulatory requirements.

Specifically, Sun Role Manager can alert management to issues with problem areas such as segregation of duties violations, which can occur when a user has conflicting roles or accounts that violate internal policies or external regulations. For example, a user whose job includes setting up vendors should have to give up the access privileges associated with that role if he or she assumes a new position that involves writing checks to those vendors.

In addition, the software's ability to deliver historical data that shows who had access to what privileges at a particular time provides an accurate, automated mechanism for demonstrating compliance.

A means for controlling the cost of doing business

Extending access to more users and keeping track of that access is bound to increase the cost of doing business if you don't have a solution in place for role-based access control. Sun Role Manager addresses this concern by reducing the cost and complexity of extending and managing access in several important ways.

- The use of roles lowers costs by simply reducing the number of objects that have to be managed. Instead of attempting to manage 10,000 or even 100,000 individual users, you can use Sun Role Manager to define far fewer roles into which individuals fit. These roles can then be used as the basis for managing their access.
- Using roles to provision users speeds up and streamlines the processes associated with assigning access privileges to employees, monitoring their access, and reporting on any violations or potential violations that may arise.
- Sun Role Manager provides an automated alternative to using slow, error-prone manual processes to create and manage roles. Manual processes place an undue burden on IT personnel and business managers, and can lead to costly problems such as responding to audit requests or proving compliance when required to do so.

Sun Role Manager software provides market-leading capabilities for engineering and managing roles and automating identity-based controls in today's dynamic, complex access environments.

By creating and managing roles, Sun Role Manager eliminates the need to manage and audit access for each individual user. You can reduce the risk of errors associated with manual processes by automating access management processes. Consider, for example, how your organization can transform the process of finding out what resources a new employee needs to do his or her job. Without Sun Role Manager, this could be as simple as asking another employee, although there is always the possibility that the employee could be wrong.

Capabilities at a glance — Sun Role Manager software provides all the capabilities to manage access to resources based on roles rather than by individual users.

Feature	Function	Benefit
Role Engineering	<ul style="list-style-type: none"> Conducts role mining based on organization, user, and entitlement attributes in any platform, database, or application Performs both top-down and bottom-up role mining Uses rule discovery to correlate rules between approved roles and attributes for use in role assignment Defines roles based on representative/template user Supports enterprise and auxiliary roles 	<ul style="list-style-type: none"> Improves alignment between IT and business organizations by mapping business roles, such as job functions, to the underlying raw entitlements Reduces the cost of defining roles by automating manual, often spreadsheet-based processes
Role Maintenance	<ul style="list-style-type: none"> Provides role approvals upon detection of entitlement updates Performs impact analysis before promoting changes to roles to understand how users might be affected Allows for the definition of temporary roles and temporary assignment of roles Enables simple changes in access based on changes in job responsibilities Tunes role definitions based on actual usage and activity 	<ul style="list-style-type: none"> Increases operational efficiency and reduces costs by automating existing manual processes for the ongoing maintenance of roles Improves organizational flexibility by making it fast and easy to change access based on business needs
Role Certification	<ul style="list-style-type: none"> Allows for ongoing role certification by business unit managers or role owners, including role-to-users (role membership) and role-to-entitlements 	<ul style="list-style-type: none"> Improves alignment between IT and business organizations by ensuring that role definitions remain in synch with business processes
Access Certification	<ul style="list-style-type: none"> Automates existing processes for certifying the access assigned to users by business managers and application owners Provides a glossary that translates cryptic access permissions into business-friendly terms Sends reminder notices and escalations for aging certifications 	<ul style="list-style-type: none"> Reduces costs by automating existing manual controls for certifying user access on a periodic basis Enhances audit effectiveness by enforcing the concept of least privilege
Policy Enforcement	<ul style="list-style-type: none"> Enables enterprise-level monitoring of access for conflicts in segregation of duties and security policy, such as role-versus-actual exceptions and terminated-users-with-active-accounts exceptions Supports inter- and intra- application security policy enforcement Includes a comprehensive list of best practice segregation-of-duties controls out of the box Provides complete lifecycle management of a policy violation Offers a mitigating control for violations that are not fixed Enables manager sign-off to be acquired on policy violations 	<ul style="list-style-type: none"> Reduces business risk associated with failed access controls Enhances audit effectiveness by enforcing security policies related to segregation of duties and least privilege Reduces costs by automating existing manual processes for enforcing security policies
Compliance Dashboard	<ul style="list-style-type: none"> Delivers an enterprise view of certification status including outstanding reports and decisions made during a certification Provides an enterprise view of policy exceptions Tracks policy exceptions by type and business unit Provides historical trending analysis for policy exceptions certification decisions, and role approvals 	<ul style="list-style-type: none"> Improves compliance by providing an easily accessible, comprehensive view of related activities
ETL Data Integration Framework	<ul style="list-style-type: none"> Enables integration with any enterprise resource or application Eliminates need to write connectors to applications 	<ul style="list-style-type: none"> Ensures ability to access entitlement data from all sources Increases efficiency and cuts costs by reducing time to load data by 70%

Part of a complete portfolio of identity management solutions

Sun Role Manager is a key component of Sun's complete identity management portfolio, which also includes products for converged provisioning and identity auditing, access management, and directory services.

Choosing a role management solution from a comprehensive identity management portfolio enables you to pursue a comprehensive strategy for identity-based security and compliance without the cost and effort of installing and integrating separate solutions from multiple vendors.

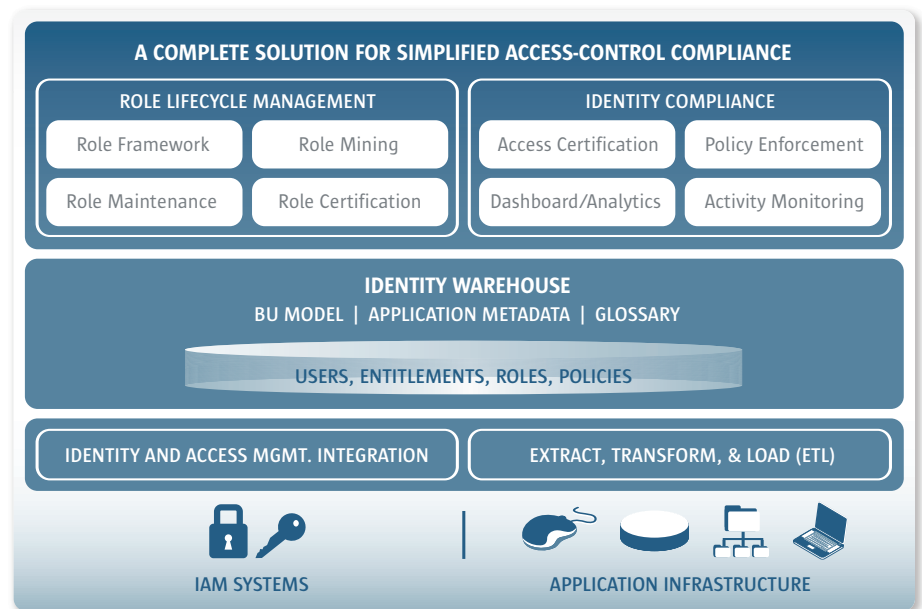
Sun offers integrated and broad portfolios of services that encompass the full lifecycle of identity management projects — from evaluation, through architecture and integration, to management of the solution. These services include support services, professional services, managed services, and learning services. In addition, Sun's valued partners offer a full range of services that range from consulting to deployment to support.

Sun Role Manager software

Supported standards

Sun Role Manager software supports standards, which allows role management functions to be easily integrated into broader business processes. Standards support also ensures out-of-the-box integration with existing and future technology infrastructure investments.

- Service Provisioning Markup Language (SPML) 1.0 and 2.0
- Java™ 2 Platform, Enterprise Edition (J2EE™ platform)



Sun Role Manager software delivers comprehensive role-management capabilities within an identity-driven framework.

Entitlement sources

Provisioning solutions

Sun Role Manager software is compatible with market-leading provisioning solutions including:

- Sun Java System Identity Manager software
- CA Identity Manager and eTrust Admin
- IBM Tivoli Identity Manager
- Novell Identity Manager
- BMC CONTROL-SA
- Microsoft Identity Integration Server (MIIS)

Enterprise resources

You can import data in any format from any enterprise resource or application through Sun Role Manager software's extract, transform, load (ETL) data integration framework.

Join the Sun Identity Insights program

Stay connected to identity management news and trends by joining the Sun Identity

Management Buzz program. As a member, you'll receive exclusive invitations to Net talk events, expert exchanges, information on upcoming events, and special offers. Join now at sun.com/identity/subscribe.

About Sun

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

For more information

To learn more about Sun Role Manager software, visit sun.com/identity.

Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 USA Phone 1-650-960-1300 or 1-800-555-9SUN Web sun.com

© 2007 Sun Microsystems, Inc. All rights reserved. Sun, Sun Microsystems, the Sun logo, Java, J2EE, and The Network Is The Computer are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries. Information subject to change without notice. SunWIN#: 527667 Lit.#: SWDS14047-0 03/08

