

Sun OpenSSO Enterprise

The single solution for Web access management, federation, and Web services security



Highlights

- Single, comprehensive solution that solves single sign-on (SSO) challenges for internal applications, internal Web services, SaaS applications, partner services, affiliate services, business process outsourcing, third-party hosted portals, and more
- First integrated solution for managing SSO, authorization, and personalization in Web, federated, and Web services environments
- Fast, lightweight federation enables identity providers and service providers to connect in minutes
- 100% Pure Java™ for ease of deployment on the broadest range of operating systems
- Simplest solution in the market to configure and deploy, with no installer necessary



As companies add more applications and Web services *and* partner with more service providers, they face a doubly difficult challenge. On the one hand, they have to find ways to reduce the business risk inherent in providing multiple partners with access to key resources. On the other hand, they must simultaneously enable the business reach that is essential to competing successfully in the network economy.

Traditionally, multiple solutions have been required to address the challenge of balancing risk and reach, with different applications for Web access management, federation, and Web services security. But as the network environment continues to grow larger and more complex, this approach is becoming increasingly difficult, costly and, ultimately, unsustainable.

Rather than using multiple solutions, businesses need a single, integrated approach that addresses both the securing and sharing of critical business resources. With one means of managing authentication, authorization, and personalization for Web, federated, and Web services environments, companies can secure access without overwhelming administrators and users with complexity.

Sun OpenSSO Enterprise

Sun OpenSSO Enterprise (formerly Sun Java™ System Access Manager and Sun Federation Manager) is a next-generation federated access management solution. It provides the capabilities you need to quickly and easily extend your reach while reducing risk — all in a single, self-contained Java application. This unified solution provides secure and centralized access control and single sign-on (SSO) for internal and external applications and Web services.

OpenSSO Enterprise is a commercial offering based on OpenSSO, the world's largest open-source, identity management project providing highly scalable, high-performance capabilities for SSO, access management, federation, and secure Web services.

You can use Sun OpenSSO Enterprise to address the three primary issues associated with balancing risk and reach.

1. Access Management

The traditional challenge of internal SSO still exists for many organizations — and it's now compounded by the additional need for extranet authentication. Even if you've found a way to handle the former, the solution involved is not likely designed to take care of the latter.

2. Federation

Federation provides an opportunity to expand business reach by providing more services through collaboration with partners. At the same time, if your company wants to federate, you must be mindful of the need to secure these resources — preferably in a repeatable, scalable way that accommodates growth.

3. Secure Web Services

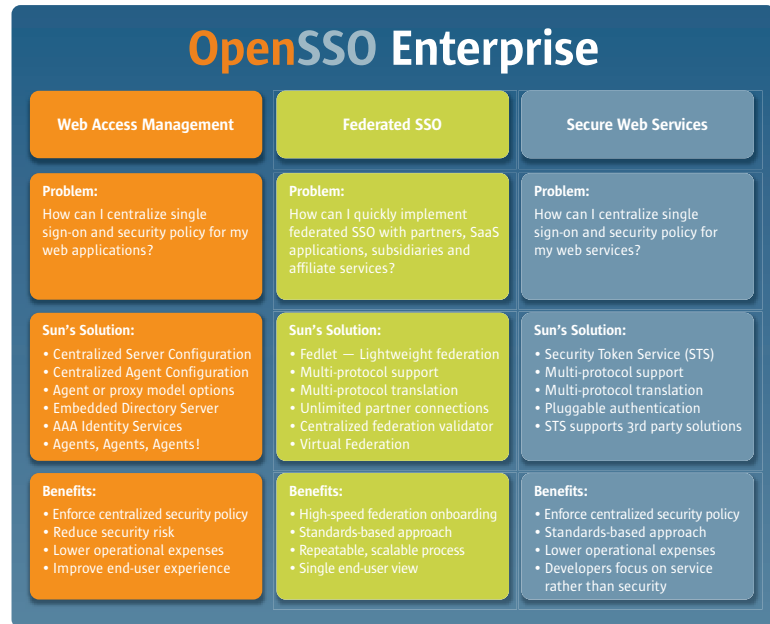
While many companies have invested considerably in centralized authentication and authorization for applications, few have done the same for Web services. Now, however, more are recognizing the importance of abstracting Web services away from the developer as part of an effort to standardize their security model across the organization.

Here's how Sun OpenSSO Enterprise addresses the three major issues that companies like yours face as you strive to strike a balance between business risk and reach.

Enabling secure Web access management

Using Sun OpenSSO Enterprise, you can centralize and enforce SSO and security policy both for internal Web applications and extranet authentication — and do so in a repeatable, scalable manner. This reduces security risk while at the same time lowering operational expenses. Sun OpenSSO Enterprise enables you to:

- Configure agents and servers and establish agent enforcement policies, all from a single, centralized console
- Gain the flexibility to choose an agent or proxy model for securing applications and providing SSO to them
- Reduce administrator effort with an embedded Directory Server that eliminates the need to procure, install, and maintain a separate directory to act as the configuration store
- Provide developers with direct access to Sun OpenSSO Enterprise services through any IDE through identity services
- Enforce XACML-based policy management, a standards based framework for defining and enforcing policy across an enterprise



OpenSSO Enterprise enables secure Web access management, establishes federation, and extends Web services security.

Establishing a fast track to federation

OpenSSO Enterprise offers a truly lightweight means of federating: the Fedlet, a 8.5 MB package that identity providers provide to service providers so that they can federate back to a company without the need for any additional federation product. To become federation-enabled, the service provider simply adds the Fedlet to their application and deploys the application. No configuration is required, and it works with both Java and .NET applications.

Other features supporting federation include:

- Support for all major federation protocols, including SAML, WS-Federation, WS-Trust, WS-Security, WS-Policy, Liberty ID-FF, and WS-I BSP
- Multiprotocol federation hub that “translates” different federation protocols so that identity providers and service providers can enable SSO across multiple protocols

- Centralized Federation Validator that enables administrators to validate service provider connections on the fly
- Virtual Federation Proxy capability that eliminates the need to have already established SSO across the enterprise before being able to federate legacy authentication applications to service providers

Extending security to Web services

Web services deployment is new for many companies, and so far, little attention has been paid to securing them in a standardized, repeatable way. Security is becoming increasingly important as Web services come to the forefront. From check imaging services on retail banking Web sites, to stock ticker Web services, to movie listings on social networking sites, Web services are becoming ubiquitous in the networked world.

Capabilities at a glance — Sun OpenSSO Enterprise integrates all the capabilities required to handle SSO, authorization, and personalization into a single, comprehensive solution.

Feature	How It Works	Benefit
Sun OpenSSO Express Builds	<ul style="list-style-type: none"> • Provides early access to the next release of Sun OpenSSO Enterprise via the OpenSSO community • Early access includes full support and indemnification 	<ul style="list-style-type: none"> • Makes it possible to deploy next-generation features developed by the OpenSSO community with the same support and indemnification provided by commercial releases without having to wait • Accelerates time to market for new applications created with next-generation features
Single WAR File Distribution	<ul style="list-style-type: none"> • Delivers Sun OpenSSO Enterprise as a self-contained Java 2 Platform, Enterprise Edition (J2EE™) application 	<ul style="list-style-type: none"> • Speeds installation and simplifies configuration by eliminating external dependencies
Simple Product Configurator	<ul style="list-style-type: none"> • Allows users to configure and deploy multiple instances of Sun OpenSSO Enterprise via a common task flow • Enables deployment of a one-click developer instance with an embedded OpenDS directory for user store and configuration store • Provides real-time input validation to quickly identify configuration errors 	<ul style="list-style-type: none"> • Enables configuration within minutes, no matter how many instances of Sun OpenSSO Enterprise are being deployed
Embedded Directory Server	<ul style="list-style-type: none"> • Provides an embedded OpenDS directory that can be used as a user store by developers or as a configuration store 	<ul style="list-style-type: none"> • Simplifies deployment by eliminating the need to configure a directory to support the configuration store • Provides a robust, scalable directory for maintaining information
Common Task Flows	<ul style="list-style-type: none"> • Delivers task-based flows that logically guide users through basic functions 	<ul style="list-style-type: none"> • Makes common features repeatable, scalable, and easy to use
Agent Model or Proxy Model	<ul style="list-style-type: none"> • Supports both agent and proxy models as policy enforcement points for securing and providing SSO to applications 	<ul style="list-style-type: none"> • Offers the flexibility to choose the way in which users protect resources

Feature	How It Works	Benefit
Centralized Agent Configuration Management	<ul style="list-style-type: none"> • Allows centralized configuration of agents from the the Sun OpenSSO Enterprise console • Automatically synchronizes configurations with deployed agents 	<ul style="list-style-type: none"> • Simplifies agent configuration • Provides a scalable, repeatable method of centrally establishing agent enforcement policies
Centralized Server Configuration	<ul style="list-style-type: none"> • Enables centralized configuration and management of all servers from the Sun OpenSSO Enterprise console 	<ul style="list-style-type: none"> • Allows configuration and management of complex horizontal deployments from an easy-to-use, central console
Fedlet	<ul style="list-style-type: none"> • Allows service providers to quickly federate Java and .NET applications without a separate federation product 	<ul style="list-style-type: none"> • Offers a lightweight way for service providers to quickly federate with an identity provider
Virtual Federation Proxy	<ul style="list-style-type: none"> • Provides a simple push model to allow multiple legacy authentication products to federate to service providers through a single instance of Sun OpenSSO Enterprise 	<ul style="list-style-type: none"> • Enables multiple legacy products to start federating before addressing internal SSO issues • Eliminates need to either federate-enable all existing products or solve SSO problems before federating
Federation Validator	<ul style="list-style-type: none"> • Provides a task-based wizard that administrators can use to selectively validate providers in their circle of trust 	<ul style="list-style-type: none"> • Allows administrators to quickly test a federated connection on the fly to ensure that the connection is working
Multiprotocol Federation Hub	<ul style="list-style-type: none"> • Enables identity providers and service providers within the same circle of trust to use different federation protocols • Enables SSO and single log-out for a session that is shared across multiple protocols 	<ul style="list-style-type: none"> • Allows companies that are members of a circle of trust to speak different federation “languages”
Security Token Service	<ul style="list-style-type: none"> • Allows standards-based creation, validation, and translation of standards-based tokens as well as proprietary tokens such as Oracle Access Manager and CA SiteMinder 	<ul style="list-style-type: none"> • Provides a flexible solution that can be deployed with Sun OpenSSO Enterprise access management and federation services or standalone to support third-party solutions

Sun OpenSSO Enterprise offers a complete solution for securing both Web applications *and* Web services. You can enforce a comprehensive security policy for Web applications and services across the enterprise, rather than relying on developers to come up with ad hoc ways to secure services as they develop them. As the market for Web services grows, this capability will help put you a step ahead of your competitors.

Sun OpenSSO Enterprise is the first solution to provide Web access management, federated SSO, and Web services security in a single, self-contained Java application.

This is the only standards-based offering in the world to provide a pluggable, end-to-end, secure Web-services solution. No plug-ins are necessary, and you can leverage out-of-box tooling from NetBeans™ and GlassFish™. Features in Sun OpenSSO Enterprise that support secure Web services include the same multiprotocol support and translation features that support rapid federation. Sun OpenSSO Enterprise also includes a Security Token Service (STS) that allows you to centralize the manner in which you issue, validate, and translate Web service tokens. Moreover, this STS — unlike others — can be deployed standalone to support third-party solutions.

100% Pure Java for ease of deployment in any environment

Because Sun OpenSSO Enterprise is a 100% Pure Java solution, it's easy to deploy on any operating system platform, including Solaris™, Red Hat, Ubuntu, AIX, Microsoft, and Macintosh OS 10. And it offers broad container support, running on GlassFish application server, Sun Web Server, Apache Tomcat, Apache Geronimo, Oracle Application Server, BEA Weblogic, IBM WebSphere, and JBoss Application Server.

Another first from a pioneering leader in open source and identity

Sun is the first provider of identity management solutions to offer a complete strategy for delivering an open-source identity suite that leverages community innovation to improve how software is developed and delivered. Sun OpenSSO Enterprise represents this new class

of software development, which is guided by a large, highly active community and supported by Sun, a world-class organization.

Part of a complete portfolio of identity management solutions

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

Choosing a federated access 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.

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