

# Sun™ Identity Management for Manufacturing

Enabling Secure Collaboration Across the Supply Chain



The Internet affords unprecedented opportunities to manufacturers seeking more effective and efficient ways to work with suppliers and customers — but it also raises unprecedented challenges and risks. Widespread online collaboration across the supply chain, as well as consolidation of business operations through mergers and acquisitions, means that more people in more places must have more access than ever to applications and information. And that, in turn, means having to tightly control that access so proprietary information and other sensitive internal data remain secure. As the number of users grows and changes on a scale that manufacturers could have hardly imagined even just a decade ago, the challenge is to constantly ensure that users have access to the information and applications they need to collaborate productively — even as their jobs and access requirements change — and, at the same time, that no one has access to information and applications they are not authorized to use. It is a balancing act that identity management can play a significant role in enabling manufacturers to achieve.

## Highlights

- Automated management of digital identities for everyone who needs access to critical online applications and information
- Single sign-on, federated identity management, and directory services streamline authorized access to applications and information
- Centralized control over who has access to what information at any given time to improve security of sensitive information
- Task delegation and self-service capabilities simultaneously reduce administrative demands and costs
- Complete auditing, reporting, and related capabilities to ensure compliance with government mandates, internal security policies, and corporate governance policies

Some of the specific challenges associated with Internet-based collaboration in manufacturing today include:

- **Enabling secure access across applications and domains:** Manufacturers rely increasingly on networked applications to run their operations. Not only that, they need to provide access to those applications for a dynamic universe of users across the supply chain, from suppliers of raw materials to customers of finished products. The challenge is to open up access to the network without sacrificing the security of the network. Manufacturers must be able, on the broadest scale, to provide authorized access to more authorized users and prevent access by unauthorized users — while accommodating constant change (such as job responsibilities or employees leaving their positions) in the process.
- **Streamlining operations and reducing costs:** A significant challenge for manufacturers who want to collaborate online is to take a multitude of fragmented, disconnected silos of identity data — both those that have grown up internally and those that come from external organizations — and streamline them to create a single, trusted source of identity information that can be managed effectively and at minimal cost. A related challenge is to replace the costly manual processes for managing identity information with more cost-efficient automated processes.
- **Complying with regulatory requirements:** Today, an increasing number of regulations are emerging to protect the integrity and privacy of financial and other information across the broadest spectrum of business and industry, and manufacturing is no exception. Any manufacturing entity that is expanding globally, for example, must comply with a more complex and diverse regulatory environment.

### Sun Java System Identity Manager

Enables manufacturers to easily and efficiently manage the identity lifecycle for a dynamic universe of users that includes internal employees, suppliers, and customers.

- Automated user provisioning and deprovisioning eliminates inefficient and error-prone manual processes — speeding service, reducing costs, and improving security when a user's relationship with the organization is terminated. Using this capability, a manufacturer could easily rotate supplier staff on critical systems without being slowed by inefficient processes.
- Password management enables automated password reset and synchronization along with self-service and delegated password management — reducing the cost of help desk support while delivering a better user experience to suppliers and others who routinely need to reset their passwords for secure access.
- Delegated administration allows responsibility to be delegated to trusted partners to securely manage identity information for their users — reducing administrative costs for the manufacturer when, for example, a large vendor with a significant number of new users is added into the supply chain.
- Synchronization services make it possible to easily synchronize identity information from multiple sources efficiently and cost-effectively — ensuring that identity data is accessible and available even when its original authoritative source is not.

### Sun Java System Access Manager

Delivers advanced access control, single sign-on, and federated identity management capabilities across “circles of trust” that encompass multiple partners.

- Centralized authentication and authorization services require users to prove that they are who they say they are before they can be authorized for access to sensitive applications and information — enhancing security through a centralized framework for defining, enforcing, and consistently applying security policies.
- Single sign-on allows a user to sign on once and navigate seamlessly across multiple applications — increasing efficiency, reducing costs, and simplifying online operations for users. For example, business partners can use a single password to access inventory and production information that may span different systems.
- Federated identity management enables seamless and secure access across applications hosted by different trusted partners — enabling expanded collaboration across multiple organizations. For example, a manufacturer could enable “virtual” teams of suppliers and vendors to collaborate online via service channels and even facilitate offerings in remote facilities. Or a company could enable customers to securely access orders online, check on work in progress, and communicate with advisors all via the same combination of federation services, automated access, and Web-based interface.

### Sun Java System Directory Server Enterprise Edition

Provides secure, scalable, and highly available directory services for manufacturers, including password synchronization with Microsoft Active Directory.

- Centralized repository for identity application and network streamlines identity information storage and management while ensuring the accuracy and reliability of identity data — improving operations, increasing efficiency, and lowering costs.
- Extensive dynamic access control ensures granular access to sensitive identity information — tightly controlling who has access to what information.
- Protection for core identity data enables failover operations and prevents denial-of-service attacks and other attacks that impact availability of service — improving the ability to consistently deliver reliable access.
- Microsoft Active Directory password synchronization automatically synchronizes passwords between Directory Server and Active Directory — enabling interoperability in heterogeneous technology environments.

**Capabilities at a glance** — Sun identity management for manufacturing provides all the capabilities that manufacturers need to support secure, efficient online collaboration throughout the supply chain.

Feature	Function	Benefit
Extranet single sign-on	<ul style="list-style-type: none"> <li>Authenticates users and exchanges credentials and security tokens across partners in a Trusted Domain</li> </ul>	<ul style="list-style-type: none"> <li>Leverages recognized authorities to identify users and determine which applications and services they may access</li> </ul>
Automated identity federation	<ul style="list-style-type: none"> <li>Links user accounts across multiple security domains</li> </ul>	<ul style="list-style-type: none"> <li>Creates a seamless, yet highly secure, user experience in multi-provider service offerings</li> </ul>
Single log-out	<ul style="list-style-type: none"> <li>Manages sessions across Trusted Domains to define when user interactions must be terminated</li> </ul>	<ul style="list-style-type: none"> <li>Bases control on how sensitive an application is and matches that control to the trust agreements deployed by partners</li> </ul>
One-click meta data exchange	<ul style="list-style-type: none"> <li>Automatically imports or exports the data required to establish basic federated communication between hubs and spokes</li> </ul>	<ul style="list-style-type: none"> <li>Streamlines deployment time and ensures consistency across partner sites</li> </ul>
Centralized provider management	<ul style="list-style-type: none"> <li>Quickly establishes and links together providers that are available to participate in a Trusted Domain</li> </ul>	<ul style="list-style-type: none"> <li>Simplifies the process of establishing federated services between networks of partners</li> </ul>
Trusted domain management	<ul style="list-style-type: none"> <li>Creates easy-to-manage Trusted Domains across partner networks by organizing hub-and-spoke partners and controlling how they share security and user-related information</li> </ul>	<ul style="list-style-type: none"> <li>Centralizes and simplifies administration, management, and control of Trusted Domains, allowing companies to quickly expand their networks of service providers</li> </ul>
Automated discovery services	<ul style="list-style-type: none"> <li>Automatically searches for available end points and identifies each provider's federation capabilities</li> </ul>	<ul style="list-style-type: none"> <li>Simplifies the process of adding providers to an Authentication Domain</li> </ul>
SAML assertion exchange	<ul style="list-style-type: none"> <li>Exchanges security assertions between participating providers</li> </ul>	<ul style="list-style-type: none"> <li>Simplifies the mechanisms used to authenticate users across security domains</li> </ul>
Web services development framework	<ul style="list-style-type: none"> <li>Provides the tools and APIs to quickly develop, register, and enable Web services</li> </ul>	<ul style="list-style-type: none"> <li>Reduces the complexity of making new services available to users</li> </ul>

### Sun Java System Identity Auditor

Makes compliance-related activities part of everyday business by creating high-quality audit trails, identifying and correcting audit policy violations, and providing real-time views of activity.

- Real-time auditing provides up-to-the-minute auditing of authentication attempts, authorizations, and changes — enabling compliance with Sarbanes-Oxley and other regulatory requirements.
- Robust reporting function provides reports on violations, remediations, and exceptions — making ongoing compliance easier and streamlining the work associated with compliance audits.
- Packaged audit policies for Sarbanes-Oxley help establish common compliance evaluation criteria such as segregation of duties — enabling rapid implementation of processes for improved compliance.

### Supporting efficient, secure identity management for manufacturing

Sun identity management for manufacturing delivers the capabilities that manufacturers need to provide secure access to information and applications for a multitude of dynamic users in complex networked environments. Through automation and streamlining of processes, as well as advanced capabilities such as directory services and federation, Sun identity management provides an effective and cost-efficient path to unprecedented levels of online collaboration, as well as enabling ongoing compliance with increasingly critical regulatory requirements.

For a complete list of features and benefits, and to learn more about Sun identity management for manufacturing, please visit [sun.com/identity](http://sun.com/identity).

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