

Sun Network Services for SAP Solutions

Highlights

Comprehensive set of identity services and secure access to centrally manage SAP Solutions user populations while maintaining tight control over security and costs.

Benefits

- Provides users with faster access to various systems using enterprise single sign-on, even as their roles, responsibilities, and relationship with the corporation change
- Single point of administration for user and access management
- Helps ensure that all appropriate authentication credentials are required of users, depending on the value of protected resources
- Helps ensure identity data is accurate and consistent across applications and data stores
- Enforces consistent corporate security policies
- Identifies and tracks users to help comply with regulations
- Remote access easily, quickly, and securely extended to employees, partners, and customers
- Provides extranet or virtual private network (VPN)-on-demand from a Java™ technology enabled browser — no client software installation or maintenance required
- Potential to reduce administration costs, enables more productive user populations, increased customer satisfaction, and reduced risk of conducting business online
- Improved service levels where user requests are fulfilled in seconds/minutes rather than days/weeks



Today, companies need to make decisions and take action quickly in order to stay competitive in the face of dynamic new market forces. To do this, they need to extend their network to include customers, suppliers, and partners. At the same time, there is a general mandate to lower total cost of ownership (TCO) and to leverage existing IT investments. These challenges are driving the need for flexible and extensible business processes that fully integrate people and information, which in turn is the catalyst to the on-going evolution of Web services.

SAP recognizes the need to extend the enterprise, creating composite, Web services-based applications to solve specific needs. SAP addresses this evolution with SAP NetWeaver, an open integration and application platform. SAP NetWeaver allows businesses to build and manage composite, collaborative business services that are available whenever and wherever they are needed by a community of users that extends beyond corporate boundaries to suppliers, customers, and employees.

SAP NetWeaver enables access to a broader range of applications and information by a wider range of users, delivering game-changing benefits to the enterprise. Products ship faster, productivity climbs, and customer satisfaction increases. The challenge is to open up the enterprise to new ways of conducting business and more users in a cost-effective manner while simultaneously ensuring that information assets remain secure.

Managing Access and Identities

Efficiently and cost-effectively managing access and identities to provide secure access for this extensive community requires a centralized approach. To maintain or increase productivity, users need a single point of entry and sign-on capability, which implies a single point of administration for all users, including operating systems, SAP solutions, databases, and other applications. IT managers need the ability to quickly and automatically add users to all of the applications and services they require, as well as the ability to modify access and privileges and delete users from all systems when they leave, in order to deal with the diversity of users and their changing roles.

In addition, businesses must also comply with security-related regulations such as controlling access to sensitive financial information. This requires the ability to detect dormant accounts, enforce consistent corporate secu-

rity policies, and ensure that data is accurate and consistent across applications and data stores.

Another critical issue for IT managers is TCO. In a large environment, supporting technology that increases costs by requiring additional staff and training can offset the benefits of the solution itself.

Providing Secure Remote Access

As the need to remotely connect to business applications through the SAP Enterprise Portal component of SAP NetWeaver grows, concerns about network security also grow. Companies have started to connect remote locations or a mobile work force through secure, encrypted network links over the public Internet. These virtual private networks (VPNs) come at the cost of extending the corporate network to laptops, which means administrators must take on the time-consuming and difficult task

of managing remote client software portfolios. And, because the software is client-based, there is a greater possibility that a virus can compromise the integrity of the installed VPN software, and thus the entire corporate network.

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SAP NetWeaver opens up new opportunities for competitive advantage, increased revenue, and more efficient operations, as well as new challenges. Sun Network Services for SAP Solutions provides a comprehensive set of identity services and secure access that make it possible to reap the benefits of collaborative business while maintaining security and costs.

Lifecycle Services for Network Services for SAP Solutions

Sun understands that all environments are different and have distinct needs. Sun offers a comprehensive portfolio of consulting services and workshops that leverage Sun's vast experience with SAP, identity management, and network security to help design, implement, and manage optimal solutions that meet the robust requirements of unique SAP environments.

Assessment Workshop

The Assessment Workshop is a one to two day initial evaluation to determine the suitability of the Network Services Solution to the specific SAP environment. Senior Sun technical staff evaluate both business and technical aspects and provide a qualified recommendation to proceed with the Network Services Solution, or to explore other avenues. The workshop gathers information about existing and proposed network solutions, in terms of security, directory services, identity services, and single sign-on requirements. It also investigates the existing SAP R/3 landscape, portal requirements, sizing, and any additional application connectivity requirements. Deliverables for the workshop include a presentation summarizing the results and recommendations for going

forward, as well as a document detailing the analysis.

Feasibility Study

The Feasibility Study is a 5 to 15 day on-site engagement designed to provide input data to the architecture phase and to review potential business or technical roadblocks. The study focuses on directory services requirements, access requirements in terms of users, applications, devices, etc., network security configuration, software configuration, and operational policies and procedures. The study results in an initial high-level architecture and a project plan of actions required in order to implement the architecture.

Architecture Service

The main objective of the 5 to 10 day Architecture Service is to provide a solid design for the implementation team. The design team focuses on the application landscape, security recommendations, hardware and network design, operations architecture, and a project plan of implementation tasks and testing procedures.

Deliverables of this service include a presentation summarizing the hardware and software architectures and the project plan, as well as an architectural design document providing all of the information required by the implementation team to build the environment.

Implementation Service

The scope of the Implementation Service is to install, configure, and test the Network Services Solution recommended and designed in the Architecture Service. This can be a phased approach in which each phase is independently implemented, tested, and handed over, as documented in the project plan. Tasks include installing and configuring hardware and software, users, security, and functional and acceptance tests, as well as production go-live. Deliverables include an installed and tested platform, sizing and configuration documents,

procedure documents, and knowledge transfer to IT staff.

iForceSM Competency Center for SAP

iForce Centers, located at SAP's headquarters in Walldorf, Germany and around the globe, provide a unique environment to develop, test, and evaluate solutions — risk free. Using their own workloads, businesses can try out design concepts, size systems, test performance, see working prototypes, and perform proof-of-concepts (PoCs) on Sun's equipment. Sun shares its SAP best practices during the design and tuning phases to help companies make the most of their SAP deployments.

Joint Support

The Sun Joint Support Center for SAP Applications (JSC) provides 24/7 worldwide support for rapidly resolving interoperability issues between Sun server platforms and SAP software. A step beyond the Sun Vendor Integration Program (SunVIPSM), the JSC provides SunSpectrum PlatinumSM and SunSpectrum GoldSM customers with specific SAP expertise in resolving complex issues related to the integrated software stack running on Sun systems. Support teams are located on-site at SAP headquarters in Walldorf, Germany to streamline information transfer and problem resolution. In addition, SAP trained support teams are located in the United States and Asia to offer faster, more specialized problem resolution worldwide.

Solution Components

Sun Network Services for SAP Solutions includes portions of the Sun Java Enterprise System to provide end-to-end identity management and secure access.

Sun Java System Directory Server Enterprise Edition

The first step in providing identity management is to centralize identity data. The Java System Directory Server delivers a secure, highly

available, scalable and easy-to-manage directory infrastructure for storing and using identity data. It centralizes identity information and makes that data available to multiple applications including Microsoft Active Directory, rather than requiring applications to store and maintain data in multiple locations, thus providing consistency and lowering costs. Password synchronization with Microsoft Active Directory increases security by helping to ensure password policies enforced on the network operating system are also enforced in key strategic directories in the enterprise. Its extreme scalability helps reduce costs by decreasing the number of systems deployed.

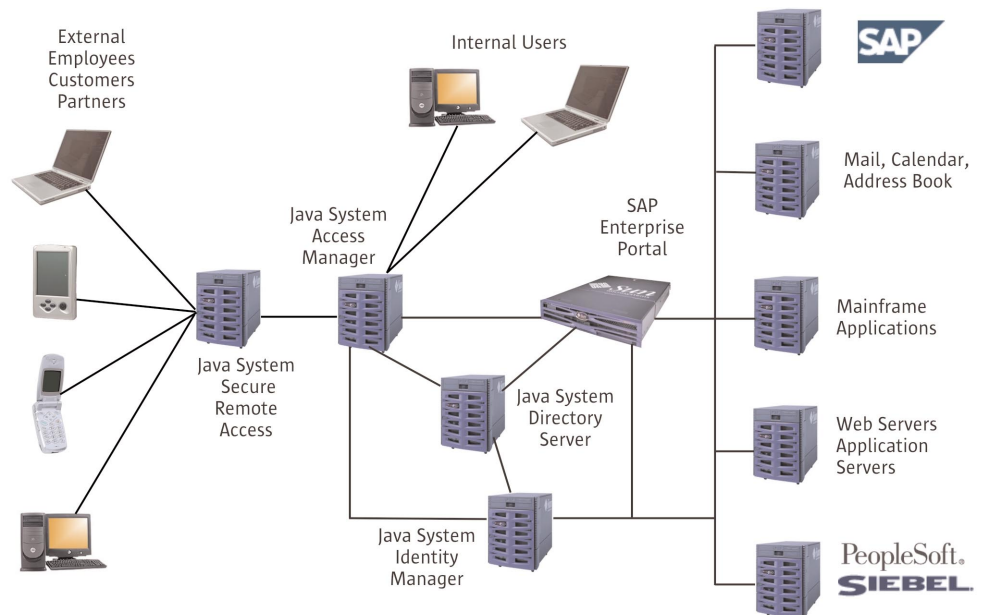
In addition, proxy services provide firewall-like protection against denial-of services and unauthorized access. Multimaster replication, load balancing, and automatic failover help provide directory services around the clock.

With over 1.5 billion entries, the Java System Directory Server is the most widely deployed general-purpose, LDAP-based directory server in the marketplace.

Sun Java System Identity Manager

Java System Identity Manager provides the core user provisioning and identity synchronization services of Sun's identity management solution, as well as password management and profile management. It uses role-based access control mechanisms to centrally create and manage users, and delegate user administration.

Using a common identity infrastructure, administration that normally occurs across many applications by multiple administrators, including OS, database, and SAP, can be consolidated into a single management console. This makes it possible to consistently delegate management tasks and self-service functionality to partners, customers, and internal company departments based on business requirements.



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It automatically synchronizes identity data across a wide range of heterogeneous applications, databases, and other data stores such as Java System Directory Server, Microsoft Directory, and Lotus Domino. This helps ensure that identity data is accurate and consistent both within and outside the boundaries of the SAP NetWeaver environment.

Sun Java System Access Manager

Java System Access Manager is a security foundation that helps organizations manage secure access to Web applications. It is designed to provide authentication and authorization services across internal and external computing domains and helps ensure that appropriate authentication credentials are required of users depending on the value of the protected resources. It also presents streamlined navigation across Web applications through single sign-on capabilities. Java System Access Manager is integrated with the SAP Enterprise Portal component of SAP NetWeaver through a Sun developed and supplied policy agent. The policy agent enables application servers to enforce

authentication and authorization defined in the application and the identity server. By using a central point of authentication, role-based access control, and single sign-on, it provides a scalable security model for SAP NetWeaver, other Web-based applications, and enterprise-wide single sign-on. In this way, it simplifies exchange of information and transactions while protecting the privacy and security of vital identity information. It also allows administrators to audit any intrusion or unauthorized access in real time.

The SAP Enterprise Portal supports authentication using Java Authentication and Authorization Services (JAAS) login modules. JAAS is an open standard tool that enables anyone to develop secure login modules. Java System Access Manager comes with an out-of-the-box JAAS login module for SAP EP 6.0 that is developed, tested, and supported by Sun. The login module checks the validity of the Sun logon and then issues a valid SAP logon transparently to the user, without the need to re-input user IDs or passwords.

Java System Access Manager supports the latest federation standards, including the

Liberty Alliance Phase 2 (ID-WSF) and SAML 1.1. Federated identity support helps provide increased revenue opportunities by enabling trusted networks between existing and new partners for faster decisions and results, reducing costs through integration efficiencies, and providing a strong framework for regulatory compliance.

Sun Java System Secure Remote Access

The Java System Portal Server Secure Remote Access enables mobile employees, telecommuters, business partners, suppliers, and customers to access the SAP Enterprise Portal — and thus a varying number of SAP systems all residing on SAP NetWeaver — from anywhere outside the corporate network.

Because it is Internet or extranet based, it does not require client-software installation, freeing administrators from time-consuming distribution, configuration, maintenance, and management of client-side, remote access applications. It also helps reduce costs by virtually eliminating related management and support calls associated with client-based access software. And, with a minimum client and connectivity investment, an SAP NetWeaver environment can be easily, quickly, and securely extended to employees, partners, and customers.

The Java System Secure Remote Access delivers encrypted communications through Secure Sockets Layer (SSL) or Transport Layer Security (TLS), and is supported on the Solaris™ Operating System, Linux, and Windows.

In addition, patented Java technology called the rewriter allows existing applications, content, files, and services to go online

without the need to re-write or modify code, which helps lower maintenance costs. When content is passed through the rewriter, it rewrites it by pre-pending the gateway URL to any URL it encounters in the content so that browser requests always come back to the gateway. And, with the obfuscation feature, the host path details are never seen by the end user. To do all of this, it needs a set of rule definitions. Java System Secure Remote Access includes a rewriter rule set for SAP EP 6.0.

Another patented technology, Netlet, connects remote clients to intranet applications via applets for Sun's version of secure VPN-on-demand from a public network. And finally, NetFile enables remote clients to access files on UNIX®, Windows, Novell NetWare, and FTP file servers.

Sun and SAP

With proven expertise, a long track record of product and service excellence, and a close working relationship with SAP, Sun offers a comprehensive set of consulting services, products, and support to help ensure SAP NetWeaver environments are secure, cost-effective to manage, and scale with changing business demands. Customers can turn to the Sun Excellence Center for SAP NetWeaver for help in creating a Sun Network Services for SAP Solution and derive more business value from SAP applications on Sun systems.

Achieving Service Quality Goals with SunTone™

The SunTone program can help companies meet IT service delivery and management quality goals by applying operational best

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For more information on Sun Network Services for SAP Solutions go to www.sun.com/nws4sap

practices to the ongoing service delivery and management of the Sun Business Intelligence Network Computing Solution. Through an assessment provided by Sun Services or an authorized iForce partner, SunTone certifies the quality of ongoing service delivery and management practices and validates the solution's capability of meeting increasingly demanding customer SLAs. www.sun.com/suntone

Sun Network Computing Solutions — Simple Solutions for Complex Problems

It takes a systems company to solve complex systems problems. As a systems vendor, Sun can deliver simple and efficient end-to-end solutions that match application delivery needs from the workgroup to the data center. Sun Network Computing Solutions are the essential system solution elements of the enterprise and network. Engineered to reduce the risk of deployment, these solutions represent deployed solutions that have been architected, implemented, and managed using the SunTone design methodology in Sun iForce Solution Centers and customer environments around the world. Each solution includes a reference architecture, best-practice methodologies, sizing guides, Sun Lifecycle services and support, a list of qualified iForce partners, and financing and technology refresh services.