

Secure Remote Access for SAP NetWeaver

Secure, Anytime, Anywhere Access for
SAP NetWeaver



Key Benefits — Java System Portal Server

- Provides extranet or virtual private network (VPN)-on-demand from a Java technology enabled browser — no client software installation or maintenance required
- More control over external clients accessing internal systems, and therefore, less opportunity for external intrusion via remote clients
- Integrated with Java System Identity Manager for centralized identity management
- Lower administration and support costs for remote clients
- Remote access easily and quickly extended to employees, partners, and customers
- Easy access to other applications, files, and content without re-writing code

Key Benefits — Solaris Operating System

- Capable of encrypting all network traffic at the command and IP level, encrypting LDAP, extending password encryption, assigning rights to perform specific functions, and more
- Integrated firewall reduces costs
- Secure access to LDAP naming services for password management via SSL and DIGEST-MD5 — passwords are no longer exchanged in the clear

SAP NetWeaver is a deployment platform providing services for SAP application modules. It allows customers to build and manage composite, collaborative business services available whenever and wherever they are needed to a community of users that extends beyond corporate boundaries to suppliers, partners, and customers, as well as employees.

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, managing client software portfolios, and possible compromise of the integrity of the installed VPN software, and thus the entire corporate network. In addition, building an enterprise IT infrastructure on a foundation of security functions, such as those integrated into the Solaris™ Operating System (Solaris OS), help to harden access to business information against malicious attacks from the Internet.

Sun Java™ System Portal Server 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 and

quickly extended to employees, partners, and customers.

The Java System Portal Server delivers encrypted communications through Secure Sockets Layer (SSL) or Transport Layer Security (TLS), and is supported on Solaris OS, Linux, and Windows. Users log on to the SAP Enterprise Portal from any available browser, enter the Web URL address, then enter their user identification. User authentication is handled over an encrypted SSL or TLS channel between the Web browser and the Java System Portal Server gateway. Authentication is then proxied by the gateway, which uses the Java System Access Manager to request and confirm authentication of the users. Once authenticated, the user is presented with a personal role-based SAP portal. To help ensure privacy and data protection, all communication

between the user and the Java System Portal Server continues to be encrypted.

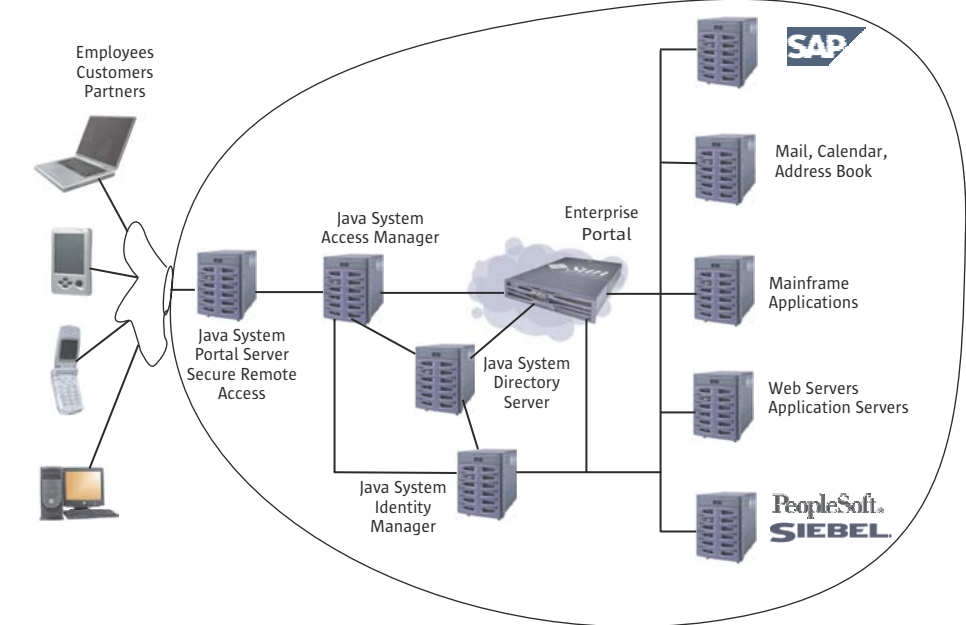
In addition, patented Java technology allows existing applications, content, files, and services to go online without the need to re-write or modify code, which helps lower maintenance costs.

Hardening Systems Against Internet Attacks

The Solaris Operating System provides a comprehensive set of tools and technologies to protect the IT environment and reduce the security challenges associated with remote access and administration. The Solaris Secure Shell can be employed to encrypt all network traffic, provide stronger authentication, and monitor the integrity of the network session. It also provides equivalent replacements for familiar commands — telnet, ftp, rlogin, rsh, and rcp — as well as a tunneling mechanism for unsafe network services.

For even higher security, the Solaris OS includes Internet Protocol Security (IPsec), which provides strong encryption and authentication capabilities at the IP level and is thus transparent to users. Other security features inherent in the Solaris OS include:

- Kerberos v5 server —to secure SSO for both applications and the operating system
- SunScreen™ 3.2 Firewall — for both host-based and network-based access control
- Secure LDAP — for secure access to password management, passwords are no longer sent in the clear



- Extensible password encryption — supports user-supplied encryption modules for higher security
- Role-based Access Control (RBAC) — assigns rights to perform specific operations
- Trusted Solaris for military grade security — extensive internal protection against intruders and misuse

Identity Management and Reliable Systems

Managing the identity of a community of remote users can be a daunting task. Sun's identity management solutions, encompassing Java System Access Manager, Identity Manager, and Directory Server provide efficient identity management for improved security and lowered costs.

To react quickly to increasing demand, SAP NetWeaver Rapid Installer simplifies the

process of installing SAP NetWeaver components for fast and reliable expansion.

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 products, services, 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 systems architecture for SAP NetWeaver deployments and derive more business value from SAP applications on Sun systems.

Get the details. www.sun.com/sap