Vintela Single Sign-On for Java

SINGLE SIGN-ON FOR J2EE ENVIRONMENTS IN ACTIVE DIRECTORY

"We use Vintela Single Sign-On for Java on an internal J2EE grant-processing application with approximately 300 users all pulled into the existing AD infrastructure. Through Vintela Single Sign-On for Java, we were able to mini-mize the impact on the end-user. It allowed us to take single sign-on to anther level."

— Joe Klosky
   Chief Technology Officer,
   National Institute for Child and
   Human Development, National
   Institutes of Health

- **Create single sign-on for Web applications and ser-vices from AD**

- **Simplify identity and access management**

- **Preserve the end-user experience and increase user productivity**

- **Extend Windows Integrated Authentication to Java architectures**

- **Improve security based on existing infrastructure**

- **Achieve regulatory compliance**

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Extend Active Directory Single Sign-on to Your Java Applications

Vintela Single Sign-on for Java provides a unified platform for identity management of Java and J2EE appli-cations and services from the same Active Directory (AD) infrastructure used to provide single sign-on for Windows resources. This product integrates J2EE servers with Microsoft AD, allowing users to authenticate to the Java applications they require without re-entering their AD username and password—Vintela Single Sign-On for Java is true single sign-on.

Vintela Single Sign-On for Java dramatically increases the security of Java applications in Windows enterprises, while reducing the management overhead and redundant tasks and infrastructure demanded by specialized Java authentication tools.

Unlike other solutions that require proprietary protocols, synchronization, and the deployment of extra services and servers, Vintela Single Sign-On for Java is easy to deploy and does not require any change to your existing AD infrastructure. All user management and authentication occurs in real time without the need for password synchronizers or other repetitive administration tasks.

Unequaled Benefits

Vintela Single Sign-On for Java is an easily implemented, highly scalable, and natively integrated extension of AD to Java and J2EE applications.

- Create single sign-on for Web applications and services from AD
- Simplify identity and access management
- Preserve the end-user experience and increase user productivity
- Extend Windows Integrated Authentication to Java architectures
- Improve security based on existing infrastructure
- Achieve regulatory compliance

Create Single Sign-on for Web Applications and Services From Active Directory

Through the Kerberos standard—the same standard used by AD for Windows single sign-on—Vintela Single Sign-On for Java integrates user login on the Windows desktop (into AD) with the enabled J2EE server issuing a Kerberos ticket that provides single sign-on access to all authorized network ser-vices. The end result is true single sign-on for Windows and Java resources. One login extends to all approved and affected systems.

Simplify Identity and Access Management

Synchronization and meta-directory solutions typically introduce additional complexity and another layer of infrastructure and management. With Vintela Single Sign-On for Java, the already-proven, trusted, and deployed AD infrastructure can now also include Java and J2EE resources to create a powerful, secure, scal-able, and cost-effective solution for identity management and authentication.

Preserve the End-user Experience and Increase User Productivity

Vintela Single Sign-On for Java allows users to access all necessary resources (Windows and Java alike) with a single username and password and with their initial Windows login. By simplifying the login process, users need to only remember one password, which in turn provides a positive experience and simplifies the login process.

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Extend Windows Integrated Authentication to Java Architectures

Vintela Single Sign-On for Java provides integrated authentication to *.NET* and *n-tier* applications. Through a powerful SDK, it extends Kerberos delegation to any "Kerberized" application.

Improve Security Based on Existing Infrastructure

Since Vintela Single Sign-On for Java natively implements the same secure standards as AD—namely Kerberos and LDAP—on Java/J2EE systems, the high level of security offered by AD for Windows can now be extended to Web services and rich applications.

Achieve Regulatory Compliance

A common denominator in virtually all applicable regulations is the need to control user access and ensure security of data. One of the biggest challenges facing organizations striving to comply is the need to secure that access across a wide range of systems and platforms. AD provides the ideal platform for compliance on Windows resources. Through Vintela Single Sign-On for Java, that compliance can be seamlessly and natively extended to Java and J2EE systems with minimal additional investment and virtually no additional management, infrastructure, or personnel overhead.

Naturally Integrate Active Directory with Java and J2EE Environments

Through the Kerberos standard, Vintela Single Sign-On for Java integrates user login on the Windows desktop (into AD) with its enabled J2EE server leveraging a Kerberos ticket that provides single sign-on access to all authorized network services. This product saves organizations time and money by eliminating the need for specialized tools to perform Java identity management and authentication. It also brings Java/J2EE applications into AD, leveraging the same powerful capabilities that make AD such an effective tool in the security and management of Windows systems.

With Kerberos implemented in Java for a wide range of supported J2EE platforms—including Apache Tomcat, BEA WebLogic, IBM WebSphere, and Oracle AS—Vintela Single Sign-On for Java integrates each with AD while preserving its unique personality and advantages.

The Vintela Integration Architecture

This strategy of natively and uniquely implementing standards on non-Windows systems for true cross-platform integration into Windows management technologies is called the Vintela Integration Architecture from Quest Software. Because of this strategy, organizations are able to consolidate management around a single set of already-in-use Microsoft tools. Regulatory compliance is within easy reach. Complexity is no longer a necessary evil. And platform diversity is preserved without compromising security, TCO, or management concerns. At the same time, since these technologies are applied natively and uniquely to each platform, the underlying personality, functionality, and experience of those systems are preserved.

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Key Features

Rapid Deployment and Integration
Since Vintela Single Sign-On for Java requires no additional infrastructure or programming, it can be rapidly deployed—reducing the total cost of ownership.

Foundation for Identity Federation
Vintela Single Sign-On for Java's flexibility and robust use of the AD infrastructure lays a solid foundation for future Federation activities.

Kerberos Authentication
Vintela Single Sign-On for Java is secure by default through its use of the Windows Integrated Authentication mechanism. It provides strong Kerberos single sign-on authentication between users and applications, including EJB invocation with Kerberos credentials for WebLogic and JDBC with Kerberos credentials to SQL Server from J2EE applications.

Authorization Using Active Directory Groups
Vintela Single Sign-On for Java supports the authorization of users through controlled access gained by managing AD group membership.

Interoperability with Microsoft Web Services and .*NET* clients
Since Vintela Single Sign-On for Java provides standard infrastructure support, it can be used to provide secure interoperability with Microsoft .*NET* clients and services using Web services.

Kerberos Library Implementation
Vintela Single Sign-On for Java leverages, a pure Java implementation of the Kerberos protocol that allows developers to integrate Kerberos functionality for authentication and single sign-on with Microsoft AD and MIT Kerberos servers into their applications. This provides advanced logging capabilities, which will meet the needs of the widest possible range of customer deployments.

Bridges Java and Microsoft Security
Vintela Single Sign-On for Java provides the tight integration necessary to leverage the capabilities of AD in a J2EE environment.

Active Directory Multiple Domain Support
Vintela Single Sign-On for Java clients can reside in AD realms that are different from the realm that contains its enabled application server. This product supports both cross-realm and cross-forest trusts with Windows 2003, allowing it to scale from the department to the enterprise.

Support for Active Directory Sites
Vintela Single Sign-On for Java uses AD Sites to match its configuration to your AD configuration and network topology.

Performance and Scalability
Vintela Single Sign-On for Java reuses information obtained during the desktop login to avoid expensive LDAP queries. It also dynamically makes use of AD Domain Controller replicas to provide load balancing and failover if the replicas are unavailable.

Delegation Flexibility
Vintela Single Sign-On for Java extends Kerberos delegation to Kerberized applications. Vintela Single Sign-On for Java includes a powerful SDK that allows it to extend AD beyond J2EE to also include FTP, Web services, etc.

Tight Integration with BEA WebLogic
Vintela Single Sign-On for Java supports BEA WebLogic's Security Service Provider Interfaces (SSPIs), providing tighter integration between WebLogic security and Windows security. It also performs EJB invocation with Kerberos credentials for WebLogic.

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Supported Platforms

J2EE Platforms:

• Tomcat and JBoss

• BEA WebLogic

• IBM WebSphere

• Oracle AS (9i and 10g)

J2EE Server OS:

• Microsoft Windows Server Family

• Unix

• Linux

Clients:

• Internet Explorer 5.5+ on Windows 98, 2000, 2003, ME, NT, and XP

• *.NET* applications

• Java client applications

• Other browsers (Vintela Integration Architecture fallback authentication mechanism)

End-to-end Credential Delegation

Vintela Single Sign-On for Java provides a true single sign-on environment by supporting the delegation of credentials to ensure end-to-end authentication.

Kerberos Tools

Vintela Single Sign-On for Java includes an enhanced set of Java Kerberos tools—including jkinit, jklist, and jktutil—that support RC4 in addition to DES.

Windows Install Wizard

Vintela Single Sign-On for Java includes an Install Wizard that provides an easy-to-use interface for installation and configuration.

Secure Connections

Vintela Single Sign-On for Java uses SASL (in conjunction with the Kerberos GSS-API mechanism) to negotiate secure connections between the application server and the Active Directory LDAP service.

Enhanced Support

Vintela Single Sign-On for Java supports authentication and authorization using NTLM tokens for legacy Windows clients such as Windows 98. It also supports the use of smart cards with Windows.

Vintela Authentication Services-enabled

If Vintela Authentication Services is installed, it can deliver simplified configuration of AD for Vintela Single Sign-On for Java, which takes advantage of its advanced key tab management for increased security.

DOWNLOAD A TRIAL!

Try a free 60-day, fully functional evaluation version of Vintela Single Sign-on for Java at www.vintela.com/support/downloads/vsjeval/

About Quest

Quest Software, Inc. delivers innovative products that help organizations get more performance and productivity from their applications, databases and infrastructure. Through a deep expertise in IT operations and a continued focus on what works best, Quest helps more than 18,000 customers worldwide meet higher expectations for enterprise IT. Quest Software, headquartered in Irvine, Calif., can be found in offices around the globe and at **www.quest.com**.

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