



**Cams is the only secure, flexible and affordable web single sign-on and application security middleware that centralizes web site security across web and J2EE application servers such as Apache, IIS, SunONE, BEA WebLogic, IBM WebSphere, JBoss and Tomcat.**

Cams makes web sites more secure and manageable by centralizing security policy decisions and management, rather than implementing security within each web application and server. This centralized approach to web security enables companies to reduce development and administration time, complexity and costs, while improving time-to-market, web site security and web application software life-cycle flexibility. Cams also provides web single sign-on to eliminate the cost, risk and pain associated with multiple sign-ons for the same site.

The lightweight, Java-based Cams policy server is easy-to-install and configure and provides a service oriented architecture that scales from small departmental requirements to the demands of large enterprise environments. Cams offers an industry leading meta-directory approach that consolidates user authentication with Microsoft Active Directory, LDAP servers, SQL databases and more.

Digipass is a small, hand-held device that provides strong user authentication through patented dynamic password and digital signature technologies that help ensure positive identification of remote users and the integrity of data and transactions. All Digipass family tokens enable users to generate One-Time Passwords, that safeguard access to e-business applications, to corporate networks and allow for more secure transactions. By using Digipass patented technology, you eliminate the weakest link in any security infrastructure: the use of static passwords that are easily stolen, guessed, reused, or shared. Digipass tokens can be deployed as a small hand-held device, as a smart card reader, or as software for computers, laptops, PDAs or cell phones. All Digipass family tokens are compatible and inter-changeable.

The integrated Digipass and Cams solution is a secure, easy and affordable solution that enables web sites to protect access to sensitive information using VASCO's strong two-factor authentication and Cams' web single sign-on security middleware.

## Features

### Digipass

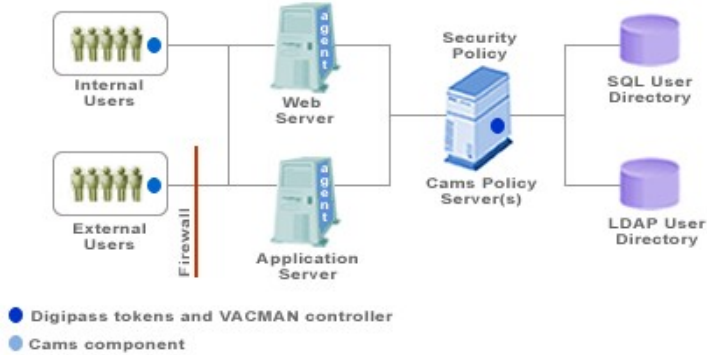
- Strong Two-Factor Authentication with support for DES, 3DES and AES
- Dynamic password generation including One-Time Password, Challenge/Response, Host Authentication and Signature Password
- No installation required for hardware tokens with customer programming and reprogramming capability
- Intelligent battery management with life expectancy of 5 yrs and more
- Full mobile use: anywhere, anytime, anyhow
- Low total cost of ownership through the product use lifecycle



### Cams

- Web single sign-on to all leading web and J2EE application servers
- Access control based on roles (RBAC), HTTP query parameters, database values, date/time, location and custom rules
- Simplified and centralized security policy administration
- Security event logging, analysis and real-time notification
- Flexible security middleware with service oriented architecture easily customized using open APIs
- Cross-platform support including Windows 2000 and 2003, Linux and Solaris

## Digipass and Cams Integration Architecture



Conceptual diagram of the Digipass and Cams web security architecture. A cluster of one or more Cams policy servers is the central hub for configuring, storing and making all web site security decisions, providing authentication and session management services, and logging security events. Cams web agents integrate into web and application servers to send security decision requests to a Cams policy server, prompt user for Digipass authentication information, and enforce security decisions.

### Cams with VASCO Digipass Benefits

- Speeds deployment with a comprehensive, integrated Digipass strong authentication and web single sign-on solution
- Facilitates combining Digipass with existing web site authentication methods and user stores
- Simplifies administration and Digipass distribution process with dynamic user registration and management tools
- Achieves low total cost of ownership throughout the web site security and authorization token lifecycle
- Improves time to market by simplifying web application development and deployment
- Lowers costs by centralizing web application security management and monitoring
- Scales performance through load balancing and caching
- Leverages current investments in existing enterprise and web application infrastructures
- Reduces complexity by eliminating proprietary and redundant security systems



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### Cams Platform Support

#### Cams Policy Server

- Mac OS X and OS X Server
- Red Hat 9 and Red Hat Enterprise 3.4
- Solaris 8/9/10
- SuSE 9
- Windows 2003/2000 Server, XP Pro, 2000 Workstation
- Other operating systems with Java JRE 1.4.x

#### Cams Web Agents

- Apache 1.3 on Red Hat 9 and Enterprise 3.4
- Apache 2.0.40 and 2.0.49-55 on Red Hat 9 and Enterprise 3.4
- Apache 2.0.49-55 on Windows 2003/2000 Server, XP Pro, 2000 Workstation
- J2EE Application Servers via Servlet Filter
  - BEA WebLogic 8.1
  - IBM WebSphere 5.x
  - JBoss 3.2.x using Jetty or Tomcat
  - Jetty 4.2.x
  - Jrun 4.x
  - Oracle 9iAS and 10g
  - Tomcat 4/5
  - Other J2EE servers that support Servlet API 2.3
- Microsoft IIS 5 and 6
- Sun ONE 6.x on Solaris 8/9/10
- Tomcat 4/5

#### User Directories

##### LDAP

- IBM Directory Server
- Microsoft Active Directory and ADAM
- Novell eDirectory
- OpenLDAP
- SunOne/iPlanet/Netscape Directory Server
- Other LDAP v3 compliant directories

##### Databases

- IBM DB2
- Microsoft SQL Server
- MySQL
- Oracle 9i/10g
- Sybase
- Other databases with a JDBC 2.0 compatible driver

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