Open for trusted e-business.

Protecting, enabling and expanding your e-business

Today, companies around the world are spending billions of dollars for services to help them plan, construct and operate information technology (IT) environments that meet the demands of an ever-expanding marketplace. To take advantage of intranets, extranets and the Internet, companies face many security challenges—like complex security requirements and lack of integration across multivendor products.

Companies rolling out e-business applications have typically taken one of three approaches to security:

• Individual business units employ a variety of security point products for applications that do not easily integrate or interoperate

• They deploy e-business applications without the appropriate security mechanisms because they don't realize the risk

• They delay deploying e-business applications because they don't have the necessary resources to address the related security issues

Unfortunately, each of these approaches can have costly consequences.

What if you could...
What if you could reduce the complexity of security implementation and lower your company's overall security costs? What if rather than researching, planning, installing and customizing individual products to handle various security requirements, you could create a comprehensive security infrastructure that integrates with new offerings and works with existing products?

With FirstSecure, you can
The answer to creating a trusted environment for e-business is IBM SecureWay® FirstSecure, an integrated, policy-based, directory-enabled security solution that meets the challenges. With FirstSecure, you can face e-business transformation with confidence. FirstSecure offers you the opportunity to:

• Transform core business processes into e-business applications that create maximum value for your business

• Build new, secure applications that are open, flexible and easy to modify

- Define and enforce business rules that distinguish one e-business participant from another

- Run a scalable, available, secure environment that can respond to changing business situations

- Leverage information and experience to create faster, smarter organizations with business intelligence capabilities

IBM SecureWay FirstSecure

IBM SecureWay FirstSecure is an integrated security solution comprised of modular, interoperable components that can help you to quickly and securely deploy e-business applications. The unique advantage of FirstSecure is the integration of core security technologies with IBM SecureWay Policy Director, which defines and implements policy across security components.

Centralizing your security policy enables you to easily update or modify it without having to use various, product-specific configuration consoles. At the Policy Director console, you can set policy that establishes user credentials and authorizes users based on those credentials.

FirstSecure with Policy Director delivers a user authentication and authorization framework that can help you solve your Web application-access-control problems.

Another key advantage of FirstSecure is its integration with IBM SecureWay Directory, an LDAP standards-based directory. The directory provides a common area for storing user IDs, passwords and group information.

The components of FirstSecure include IBM SecureWay Policy Director, IBM SecureWay Boundary Server, IBM SecureWay Trust Authority, intrusion immunity and IBM SecureWay Toolbox.

IBM SecureWay Policy Director

Policy Director provides a centralized point that defines, administers and serves applications and network security policy. It enables policy related to access control for Web-based applications and resources as well as TCP/IP-based client/server applications.

Access to Web pages in any environment —including IBM AIX®, IBM OS/2®, IBM OS/390®, IBM OS/400®, Sun Solaris™ operating environment and Microsoft®

Windows NT®—can be controlled by Policy Director. Users can be placed in groups to simplify user authorization and to determine what kind of access they have to Web applications and resources.

IBM SecureWay Boundary Server

IBM SecureWay Boundary Server provides protection for Internet-based business transactions through the use of firewall, virtual private networking (VPN) and content-filtering technologies. This solution includes IBM SecureWay Firewall, IBM Network Security Auditor, Content Technologies MIMEsweeper, Finjan SurfinGate and Security Dynamics ACE/Server and SecurID tokens.

SecureWay Boundary Server controls who can enter or leave your network as well as what content enters or leaves. Extranet security is provided when the SecureWay Boundary Server is used in conjunction with Policy Director. Policy Director administers the overall security policy while the Boundary Server enforces it.

IBM SecureWay Trust Authority

Public key infrastructure (PKI) enables e-business by providing a trusted environment that supports secure access to data and Web applications, including e-mail. Trust Authority, the IBM PKI component, is a registration and certification solution that registers e-business entities online, shielding data and transactions against unauthorized access. It also helps manage the digital certificates representing those entities. IBM Vault Registry addresses e-business requirements by providing a high level of authentication, information integrity and non-repudiation (proof of trans-action events).

Intrusion immunity

FirstSecure intrusion immunity provides proactive protection and detection against a broad range of security exposures. Using Symantec™ Norton AntiVirus™ to address viral attacks, FirstSecure detects and disinfects 100 percent of in-the-wild viruses, including Microsoft Word macro viruses.*

Another component of intrusion immu-nity is Tivoli® Cross-Site for Security™. This offering enables you to detect intrusion attacks and issue alerts when policy is violated on a specific system or area of the network. You can also log and respond to unauthorized or suspicious activities and distribute new attack signatures in realtime.

IBM SecureWay Toolbox

FirstSecure provides your developers with a means to create and customize applica-tions with IBM SecureWay Toolbox, a set of security toolkits that enables you to build on and manage security services. Toolbox includes IBM KeyWorks ToolKit, IBM Key Recovery Service Provider, IBM Key Recovery Server, IBM SecureWay Policy Director authorization API, Secure Sockets Layer (SSL) toolkit, Public Key Infrastructure for X.509 toolkit and IBM SecureWay Directory client toolkit and security enabler (LDAP Toolkit).

Build on what you have

You can build on your current invest-ments with modular, interoperable offerings, reducing the cost of integrating security within your systems management infrastructure. Take advantage of the comprehensive, dependable support that FirstSecure provides for your e-business.
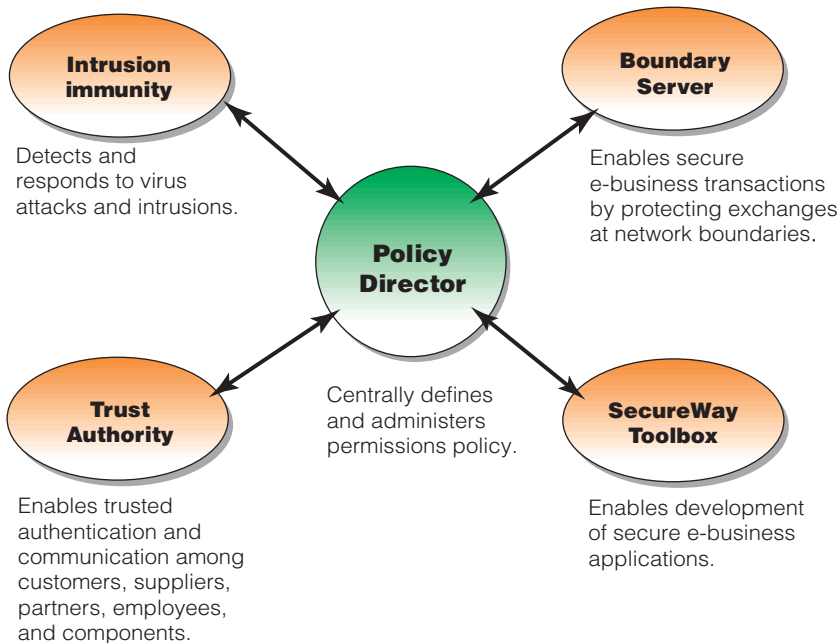
FirstSecure integrates core security technologies with IBM SecureWay Policy Director

Administration	Availability	Accountability	Asset Protection	Assurance	Authorization
• Tivoli User Administration • Tivoli Security Management • Services and consulting	• Tivoli ADSM™ for data backup and recovery • SecureWay Network Dispatcher • Services and consulting	SecureWay FirstSecure features, including: • Policy management • Virus protection • Access control • Enhanced firewall (VPN, content filtering, proxies) • Network intrusion detection • Encryption			• PKI • Toolkits • Non-intrusive security for existing applications • Services and consulting

FirstSecure and Tivoli Enterprise address the set of six, high-level security requirements which serve as the conceptual base of IBM's security architecture for e-business

With FirstSecure, IBM provides components that have been tested together and integrated with industry-standard LDAP directory services; attractive pricing options for the integrated package of products; and IBM support for the complete solution, which includes technologies from other providers.

A comprehensive look at security requirements

FirstSecure and Tivoli Enterprise™ provide complementary capabilities to comprehensively address the complete set of security requirements for e-business. In addition to FirstSecure, which covers authorization, asset protection, accountability and assurance, Tivoli availability products ensure reliable, predictable access to key applications and network resources. They also provide network backup and archiving with storage management and disaster-recovery planning functions. Tivoli administration products provide centralized, consistent mechanisms, such as multiple directory services and management tools that control and synchronize an integrated directory. For customers who need a single sign-on solution for their enterprises in order to log on to host-based resources, network operating systems and databases, Tivoli Global Sign-On is recommended. Tivoli Enterprise provides management and administration of the systems under its control. Those systems include the following FirstSecure components: Norton AntiVirus and Tivoli Cross-Site for Security.

Together, FirstSecure and Tivoli Enterprise address the set of six, high-level security requirements which serve as the conceptual base of IBM's security architecture for e-business. FirstSecure and Tivoli Enterprise satisfy these critical requirements, enabling your company to become a successful e-business. This success is achieved by reducing risk of intrusion and establishing counter measures against it, simplifying the complexity of your network and reducing the cost of security by integrating comprehensive, interoperable components unified by a standards-based security policy repository.

For more information

For more information about IBM SecureWay FirstSecure, visit our Web site at:
www.ibm.com/software/security/firstsecure

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