

**Tivoli.** software



**Combine resources for a complete and security-rich on-line business solution.**

### **Big e-business opportunities demand security to match**

Gone are the days when e-business meant building a Web site and delivering simple, one-way transactions. Today, new e-business opportunities are driving the integration of complex business processes with systems outside your enterprise—and the extension of applications to your trading partners. With these e-business capabilities come new possibilities: the potential for increased productivity and efficiency—not to mention the potential to increase long-term revenue. Yet the new opportunities also present new challenges. At the forefront? Integrated security and identity management.



### **Trusted digital identities build the foundation for more secure e-business**

Obviously, trust is paramount when it comes to e-commerce. And e-business opportunities present security issues beyond monetary transactions. You know you need to securely identify users. And give users quick access to the information they need across many online resources—like the Internet as well as intranet and extranet sites. You also need to protect highly sensitive transactions and business processes involving not only money, but information. And you must meet these objectives while maintaining a positive and security-rich user experience for your customers, trading partners and associates—within your IT budget and skill set. The ability to authenticate and establish the identity of users through a trusted protocol is key to enabling online transactions, maintaining the integrity of your business data and protecting users from identity theft.

### **A combined solution: IBM security products and services and VeriSign digital trust services**

IBM and VeriSign are working together to help e-businesses like yours meet these evolving security challenges—so you don't need to become an expert in online security. VeriSign is the world's leading provider of digital trust services that enable enterprises to authenticate users, authorize their online activities and help secure Web-based and other digital transactions. Working alongside VeriSign, IBM Global Services (IGS) can provide the people, technology and services your company needs to achieve efficient, effective system integration and security for your e-business—helping you put VeriSign solutions to work with best-of-breed IT solutions. e-business integration solutions from IGS can include combining IBM security technology such as IBM Tivoli® Access Manager with VeriSign Managed Public Key Infrastructure (PKI) services to help provide protection for your online applications while setting up a policy-based, selective access system to allow others to do business with you. Tivoli Access Manager establishes digital identities by identifying and authenticating the credentials of anyone who logs in to your network. The software then determines which applications users can access, as well as their permissions for individual resources within those applications. Tivoli Access Manager protects the integrity of your critical data, application servers, servlets, Web sites, images and more.



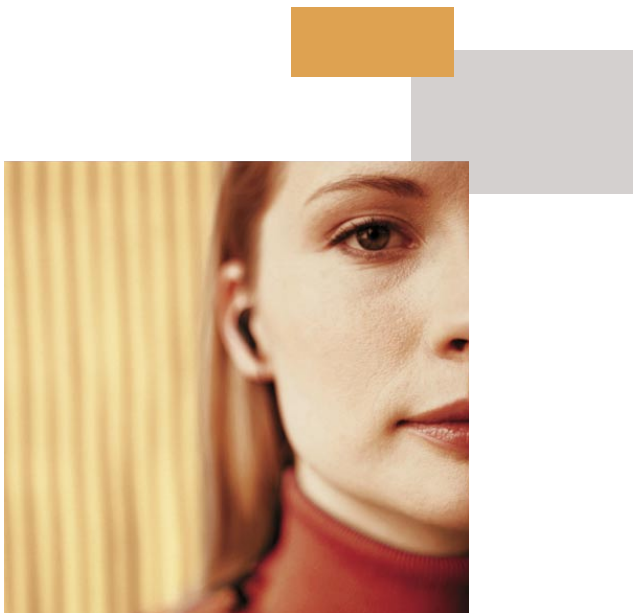
While Tivoli Access Manager protects your online applications, VeriSign Managed PKI adds value by providing digital certificate services for authentication, encryption, digital signing, nonrepudiation and auditing. It can smoothly interoperate with Tivoli Access Manager software to verify the credentials of your customers and trading partners—helping ensure that the people who access your online systems are who they claim to be. For example, a user logs in to your network through a Web browser—perhaps to obtain customized marketing information on a new product line. Access Manager identifies and authenticates the login information, and VeriSign issues a digital certificate that identifies that user as a trading partner. The certificate will allow the user to view the information he or she has access to and give the user an option to digitally sign documents for additional security to conduct protected transactions. With this integrated solution, you control certificate issuance and management, while VeriSign provides a backbone of certificate-processing services—freeing you to stay focused on your business goals. VeriSign builds and manages a powerful PKI and certificate authority that provides control of your corporate security policies. This level of security can propel the efficiency of your e-business, helping you to:



- *Improve customer trust and satisfaction through security-rich, yet easy-to-use Web transactions.*
- *Protect consumers and other business associates from identity theft.*
- *Save administrative time and expenses by moving more transactions online and decreasing the need for paper, faxes and phone calls.*
- *Simplify e-business identity management and delegate user administration among partners, suppliers and administrators.*
- *Reduce help-desk expenses by leveraging self-service features for password management.*
- *Save IT expenses by taking advantage of the combined IT resources and services of IBM and VeriSign to manage and deploy your security infrastructure.*

**Meet the security demands of e-business with an end-to-end solution**

IBM Global Services can help you leverage Tivoli Access Manager and VeriSign Managed PKI services, allowing you to meet the evolving challenges of e-business security—so you can provide optimum information and online experiences for your customers, trading partners and other associates.



*Securely identify users*

The first step in making sure you can protect your critical data —while allowing access to the users you need to do business with—is identifying the users who log in to your enterprise. IBM and VeriSign work hand in hand to do this. When a user logs in to your network through a Web browser, a certificate request is passed on to VeriSign from Tivoli Access Manager. This allows the software to authenticate the user and determine whether or not the user has access to the requested information or transaction. VeriSign also provides certificate lifecycle management, including enrollment, approval, revocation and renewal. So you can keep user access up to date.

The integration with VeriSign provides centralized, flexible and scalable access control—to help you minimize the internal resources that you need to administer corporate security policies. Tivoli Access Manager not only integrates with VeriSign Managed PKI services, but also functions in combination with standard Internet applications—so any standard application you choose to integrate with your Web site can be protected—without the need for additional security code. And its authentication framework gives the solution a vast array of both integrated and external authenticators, accessed through standards-based technologies. What does this mean for your enterprise? The combined offering provides a comprehensive authorization and network security policy-management solution that is scalable for both intranet and extranet sites.

*Provide fast, secure access to applications*

Once you've identified users and determined what information they can access, you want to make sure the information they view is secure and quickly accessible. In other words, you don't want customers and trading partners to get slowed down by a lot of security safeguards that require inputting redundant information to get to the data they need. Tivoli Access Manager and VeriSign Managed PKI services work together to safeguard your data and give validated users quick access to it. VeriSign can establish a PKI system to authenticate users, including trading partners, customers and prospects. Tivoli Access Manager can leverage the PKI system, acting as the gatekeeper to identify trusted users and grant access to trust-enabled applications using digital certificates. Trusted users can then gain access to the applications and information they need quickly and easily with single sign-on access, automated workflows and prepopulation of personal information. Digital certificates from VeriSign allow encryption of this information, helping ensure that the user's personal data is protected. And because the information they need is both secure and easily accessible, your customers and business associates will have a more positive experience doing business with you.

*Protect highly sensitive transactions*

While monetary transactions may be no more important than exchanges of confidential business data, your customers require a certain level of assurance that their financial information has the highest level of protection. Protecting your customers' personal information is vital to the success of your e-business. VeriSign digital certificates again add value to Tivoli Access Manager by allowing encryption of customer information and transactional data and by enabling digital signatures to further secure monetary exchanges. Because the combined solution provides a multitiered program of transaction security—from authentication to access and encryption to digital signatures—your customers are more apt to do business with you online. The bottom line for your enterprise: potential for increased customer satisfaction and online revenue and decreased administrative costs by moving closer to paperless commerce.



*Get more value from your security investment:*

*Stay within your IT budget and skill set*

In today's e-commerce marketplace, you have options for putting together a security solution that can meet your needs—to securely identify users, provide quick, secure access to applications and protect transactions. But finding a solution that also stays within the skill set of your IT staff—and your budget—might be another challenge. The combined solution offered by IBM and VeriSign takes your budget and IT skills into account. It allows you to take advantage of industry-leading, standards-based authentication and authorization services. And it gives you access to as many IT resources as are needed at any given time, scaling computing and storage capacity to match realtime demands—freeing your IT staff to focus on other critical business objectives. Because the solution is built on Tivoli Access Manager, there's no need to write new code or build a new security infrastructure. Based on standard technologies, this combined security solution is scalable to meet evolving e-business needs, ultimately resulting in IT cost savings.

**Why IBM and VeriSign**

IBM and VeriSign are leaders in e-business technologies. And both are advancing e-commerce opportunities through the use of open, industry standards. They are key contributors to the publication of a new Web services security specification to help organizations like yours build highly secure, interoperable Web services applications. What does this mean for your enterprise? You can be assured that security solutions from IBM and VeriSign—like Tivoli Access Manager and VeriSign Managed PKI services—will utilize your current infrastructure and investments and will integrate with new online applications that your customers and the industry will demand in the future.

**For more information**

Leverage IBM and VeriSign resources to build an end-to-end e-business security solution for your enterprise. To learn more about IBM Global Services, Tivoli Access Manager and VeriSign Managed PKI services, contact your IBM or VeriSign sales representative. Or visit:

**ibm.com**/software/alliances/verisign





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