

Tivoli. software



Combine resources for one complete online business security 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-party 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 to increase productivity and efficiency—not to mention the potential to increase long-term revenue. Yet, the new opportunities also present new challenges. At the forefront is providing integrated security and strong identity management.



Building a secure foundation for the on demand business

Trust is paramount when it comes to integrated identity management. And e-business opportunities present security issues beyond monetary transactions. You know you need to securely identify users and give them quick access to the information they need across many online resources: like the Internet, and intranet and extranet sites. You also want to protect highly sensitive transactions and business processes involving money and 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. To enable online transactions, manage costs, maintain the integrity of your business data and protect users from identity theft, it is important to consider building a reusable security infrastructure that:

- *Fits your heterogeneous operating environment.*
- *Provides you with the ability to strongly authenticate and verify the identity of users through a trusted protocol.*
- *Effectively controls access to your resources.*

IBM Tivoli security products and VeriSign Managed Strong Authentication 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 one of the world's leading providers of managed strong authentication services. These services enable enterprises to authenticate users, authorize their online activities and provide trust to conduct secure Web-based and other digital transactions. To meet varying needs of enterprises, customers and business partners, VeriSign Managed Strong Authentication Services offer multiple choices of authentication, such as:

- *One Time Password (OTP)*
- *Public Key Infrastructure (PKI)*
- *Subscriber Identity Module (SIM) technology-based authentication*

While offering a choice of devices for strong authentication, such as Universal Serial Bus (USB) tokens, smart cards, handhelds and cell phones, VeriSign Managed Strong Authentication Services help reduce the high cost of managing an in-house provisioning and token management system. These services are easy to integrate with enterprise directories providing advanced features to help ease provisioning and administration, and help decrease the complexity and high cost of transactional validation by leveraging VeriSign's global network utility. IBM Tivoli identity management offerings help you quickly realize potential return on investment (ROI) by bringing users, systems and applications online fast.

At the same time, these offerings help you effectively manage access rights and privacy preferences throughout the identity life cycle. IBM Tivoli Access Manager provides Web single sign-on, distributed Web-based administration and policy-based access control for securing e-business applications. Additionally, enterprises can extend Tivoli Access Manager security to application-level data protection for WebSphere® MQ messaging messaging transactions by utilizing Tivoli Access Manager for Business Integration.

Tivoli Access Manager products and VeriSign Managed Strong Authentication Services complement each other to help you protect your online applications and set up a policy-based, trusted and selective access system for conducting business.

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 users can access which applications, and verifies their permissions to individual resources within 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 Strong Authentication Services provide OTP, PKI and SIM technology-based authentication, encryption, digital signing, nonrepudiation and auditing, to provide a strong identity for conducting business with trust. 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. This security-rich level of efficiency in your e-business can help you:



- *Enhance security and ease of use by providing your users with strong single sign-on services to a variety of applications, data and network resources.*
- *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 by delegating user administration among partners, suppliers and administrators.*
- *Reduce help-desk expenses by leveraging self-service features for password management.*
- *Reduce cost of your strong authentication system while offering multiple choices to end users to securely access IT resources.*

Securely identify users

While it is vital to protect your critical data, it is also important to allow access to the users you need to do business with.

As the number of applications grows, complexity for the user can be reduced by employing Strong Single Sign-on (SSO).

Administration costs can be reduced by allowing self-care. An employee portal is an example. Users may require access to many applications and may update their personal information, application preferences and so on.

Self-care and Strong SSO make the accurate identification of the users who log in to your enterprise even more critical, often requiring the implementation of two-factor authentication mechanisms. IBM and VeriSign work hand in hand to do this. With VeriSign Managed Strong Authentication Services, a user can utilize OTP, PKI and SIM authentications to log in to your network. This allows Tivoli Access Manager to authenticate the user based on the strong identity and determine whether or not the user has access to the requested information or transaction. VeriSign also provides token and certificate life-cycle management, including enrollment, approval, revocation and renewal, to keep user access up to date.

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



Provide fast, highly secure access to applications

Once you've identified users and determined what information they may access, you want to make sure the information they view is secure and quickly accessible. You don't want customers and trading partners to be hindered by security safeguards that require inputting redundant information to get to the data they need. Tivoli Access Manager and VeriSign Managed Strong Authentication Services work together to safeguard your data and give validated users quick access to it. VeriSign can establish a PKI or token-based system to strongly authenticate users, including trading partners, customers and prospects. Tivoli Access Manager can leverage the authentication 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 that 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 a user's personal data is protected. And because the information needed is both highly secure and easily accessible, your customers and business associates can have a more positive experience doing business with you.

Protect sensitive transactions

While monetary transactions may be simple exchanges of confidential business data, your customers often 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 can also add value when Tivoli Access Manager encrypts 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 likely 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.

Using the combination of IBM Tivoli Access Manager and VeriSign Managed Strong Authentication Services allows you to take advantage of industry-leading, standards-based authentication and authorization services. Because the solution is built on Tivoli Access Manager, there's no need to write new code or build a new security infrastructure. VeriSign managed services help reduce the cost of managing provisioning and administration. Based on standard technologies, this combined security solution is scalable to meet evolving e-business requirements. Ultimately, the result can be new-found IT cost savings.

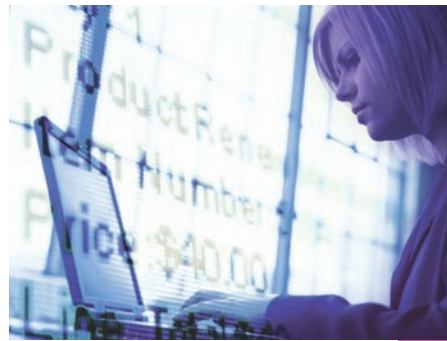
Why IBM and VeriSign?

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? Implementing security solutions from IBM and VeriSign—such as Tivoli Access Manager and VeriSign Managed Strong Authentication Services—can help you to leverage your current infrastructure and investments in establishing a reusable security infrastructure. A foundation you can count on now and as you deploy new online applications for future customer and industry demands.

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 Tivoli Access Manager and VeriSign Managed Strong Authentication Services, contact your IBM or VeriSign sales representative. Or visit:

ibm.com/software/alliances/verisign





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