

# Future-proof your access security with Citrix and Gemalto

Citrix Systems, Inc. and Gemalto have partnered to deliver the most secure and configurable network access and application experience with strong authentication available today.

## An end-to-end infrastructure for secure application delivery using strong authentication

In an era where businesses run on applications, the ability to deliver applications and desktops to any user, anytime, anywhere from a secure, central location is rapidly becoming a core focus for most IT organizations. By providing an end-to-end infrastructure for application delivery, Citrix XenApp™ (formerly Citrix Presentation Server™), is the first solution on the market to address this challenge across all applications, all networks, and all users.

Gemalto Strong Authentication Solutions enhance Citrix XenApp with multi-factor authentication. Gemalto integrates something you know—your username and password—with something you have: a smart card-based security device generating a one-time password (OTP) or storing a digital identity credential such as a digital certificate. Smart card-based devices offer simplicity and scalability to grow with your organization's infrastructure and security needs.

## Security for the future

Citrix XenApp is a dynamic application delivery infrastructure solution that enables IT to become relevant to the business—dramatically improving agility, while enabling the best performance and highest security at the lowest cost. Gemalto, too, optimizes secure access to the network with strong authentication that ensures only authorized users have access to applications and desktops. Options include connected or standalone mode—enabling any user, at home, at work, or on the road, to log on securely with multiple identification factors.

# On-demand secure access

Citrix XenApp is one of the four product families within Citrix Delivery Center™. XenApp, Platinum Edition integrates critical capabilities for application performance monitoring, SSL VPN remote access with SmartAccess control and single sign-on application security. When paired with Gemalto technology, the result is an unprecedented solution that delivers access to all the resources users need, while preserving mobility and providing the endpoint security, password management, and file-level control that enterprises require—and regulations dictate.

## Strong but flexible authentication

Gemalto Strong Authentication solutions perfectly complement XenApp products. For example, you can configure policies making two-factor authentication a prerequisite for access to sensitive applications through SmartAccess: if users can authenticate only via a username and password, they will receive access only to basic applications. In addition, enterprise single sign-on can enhance the convenience of using longer (and more secure) passwords while reducing their higher management and support costs. And Gemalto's Strong Authentication Solution eases compliance with government regulations by enhancing the credibility of audit trails and preventing data fraud from within.

The diversity of Gemalto Strong Authentication devices ensures that your users can easily employ two-factor authentication in a myriad of access scenarios. If connecting via USB, for example, the network user identification credential is sent to the authentication server automatically without manual input. The Strong Authentication Server (SAS) then performs the same cryptographic computation as the smart card device and verifies that the OTP matches. When Gemalto devices are used in an unconnected mode, the user simply presses a button on the thumb-sized device and the built-in display shows the eight-digit OTP. The user enters this directly into the remote network application using a keyboard or keypad. All Gemalto smart card-based devices function off the same backend, so you can mix and match according to your users' unique access needs.

Should you choose to require stronger authentication to the network, Gemalto Strong Authentication devices are equipped to provide that as well. Gemalto's .NET-powered smart card runs a small footprint version of the Microsoft® .NET Framework to enable stronger forms of authentication such as Public Key Infrastructure

(PKI) that are supported in Windows® environments. All of the software needed to enable the smart card is available from Microsoft® Windows Update and native in Windows Vista®. You do not need to purchase and install proprietary software to enable .NET smart cards for your employees—lowering the cost of ownership for identity management and two-factor authentication.

## Centralized and secure applications

Citrix XenApp strengthens security by keeping applications and data on the server—behind the firewall— instead of exposed on a desktop or mobile device. For Windows, UNIX®, Java, or Web-based applications, 100 percent of the logic executes on the server. The interface is virtually delivered to users, and the small amount of data traveling between client and server (screen updates, keystrokes, and mouse clicks) is encrypted. There is no need for cache clean-up solutions. Users can access applications securely from any browser, operating system, or device; advanced load balancing, CPU management, and memory optimization deliver high user density. Finally, because the Citrix® ICA® protocol requires no more than 20 Kbps of bandwidth, users experience high performance—even at remote locations and over low-speed network connections.

## Granular control of resources

Citrix Access Gateway™ is a Secure Sockets Layer (SSL) VPN enabling an unprecedented level of tailored, secure application delivery to any browser-enabled device. When this proven solution is coupled with Gemalto's Strong Authentication Solutions, you will gain the peace of mind that comes with knowing your data will be accessed only by authorized users over a secure connection. Citrix Access Gateway is the only SSL VPN to securely deliver any application with policy-based SmartAccess control. This technology allows administrators to control both access and actions based on both the user and the endpoint device.

## Effective password management

Enterprises typically rely on the user to manage numerous passwords. But a user's natural inclination for simplicity (e.g., using a single password whenever possible), poor memory (e.g., using a spouse's name), and carelessness (e.g., writing or recording passwords anywhere) invites password theft and puts critical corporate resources at risk.

Citrix Password Manager™ strengthens application security and eliminates the security breaches that are common when users have more passwords than they can manage. It simplifies user

access, facilitates regulatory compliance and is easy to deploy and use. Password Manager does not require scripting, application-level integration, or significant changes to existing IT infrastructure.

Password Manager does not provide the keys to the kingdom on one ring. What it does is strengthen those keys. It enables you to set policies that enforce stronger primary passwords, for example—specifying characteristics such as length, character repetition, and alphanumeric requirements—and to automate password changes at desired intervals.

Ultimately, Password Manager can even cut out the middleman altogether. When users are no longer exposed to their own passwords, they cannot store, share, or otherwise mishandle their credentials. In addition, federal regulations dictate that when a user leaves your organization, you must render all of their accounts inactive. Without an integrated access infrastructure, only primary network authentication is disabled. But Password Manager can automatically—and transparently—change passwords for users and then store those passwords in a secure location. Users never know their password from that point forward. This makes it easy to disable all access by simply disabling the user's primary network authentication.

Like the other products in the modular Citrix XenApp, Password Manager supports Gemalto multi-factor authentication solutions to further strengthen access control. Gemalto Strong Authentication devices can even store a user's sign-on credentials for greater assurance and security.

In addition, Gemalto eliminates the need to keep track of multiple identification cards and passes in addition to passwords. For example, if a user uses a card to access the corporate premises,

you can add an application to the same card that allows them to generate an OTP. Users no longer have to carry two devices. This solution is cost-effective while boosting convenience and efficiency for the user.

## CITRIX and GEMALTO — enabling secure access end to end

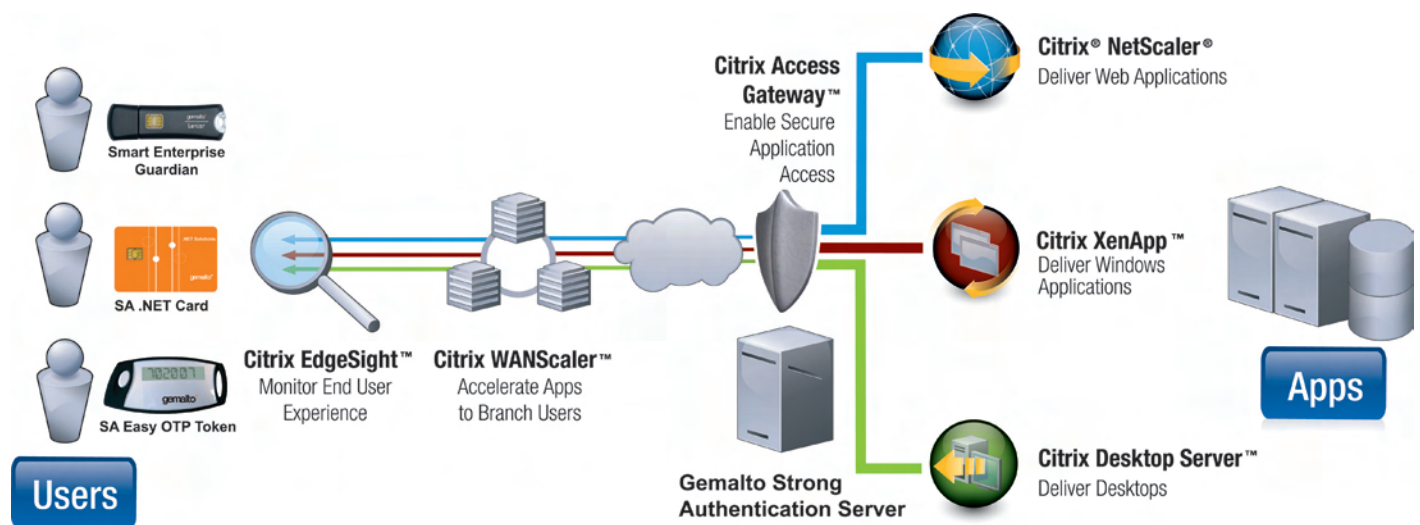
Citrix XenApp makes security an integral part of your application delivery infrastructure. The Gemalto Strong Authentication Solution product line enhances secure application delivery with strong, two-factor authentication. Citrix and Gemalto together help to eliminate the security gaps, incomplete visibility, and integration effort created by piece-part technologies.

They offer you the flexibility to tailor security to your business—now and well into the future.

### Citrix Ready



Gemalto Strong Authentication solutions are verified Citrix Ready products. The Citrix Ready brand identifies recommended products and solutions that are trusted to enhance Citrix Application Delivery Infrastructure solutions. All products that are Citrix Ready have completed verification testing, ensuring compatibility with Citrix products. Citrix Ready products are clearly marked, and are included in an online catalog, making it easy for customers to find the products they need to build a trusted infrastructure.



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## About Citrix

Citrix Systems, Inc. (Nasdaq:CTXS) is the global leader and the most trusted name in application delivery infrastructure. More than 200,000 organizations worldwide rely on Citrix to deliver any application to users anywhere with the best performance, highest security, and lowest cost. Citrix prosumers include 100 percent of the Fortune 100 companies and 98 percent of the Fortune Global 500, as well as hundreds of thousands of small businesses and prosumers. Citrix has approximately 6,200 channel and alliance partners in more than 100 countries. Annual revenue in 2006 was \$1.1 billion. For more information, visit <http://www.citrix.com>.

## About Gemalto

Gemalto (Euronext NL 0000400653 GTO) is the leader in digital security with pro forma 2007 annual revenues of over €1.6 billion, more than 85 offices in 40 countries and about 10,000 employees including 1,300 R&D engineers. In a world where the digital revolution is increasingly transforming our lives, Gemalto's solutions are designed to make personal digital interactions more convenient, secure and enjoyable. Gemalto provides end-to-end digital security solutions, from the development of software applications through design and production of secure personal devices such as smart cards, SIMs, e-passports and tokens to the deployment of managed services for its customers. More than a billion people worldwide use the company's products and services for telecommunications, financial services, e-government, identity management, multimedia content, digital rights management, IT security, mass transit and many other applications. As the use of Gemalto's software and secure devices increases with the number of people interacting in the digital and wireless world, the company is poised to thrive over the coming years. For more information, please visit [www.gemalto.com](http://www.gemalto.com).

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