

# Secure access to your Citrix environment

## DIGIPASS strong user authentication for Citrix

Nowadays business applications need to be accessible to the workforce any time and any place. Next to that an increased number of software deployments are shifting from a traditional approach to a virtualized model, using minimal platform resources at a low operational cost. Instead of installing software on a PC, the business applications and data are accessed over the network.

Virtualization is using the strength of the cloud enabling the workforce to exploit online collaboration in its full potential. However accessing business applications over a private or public network has made the corporate network, its applications and corporate data vulnerable to hacking attempts and data theft. DIGIPASS strong authentication adds an additional security layer to business application thus preventing unauthorized access and data theft.

VASCO Data Security has extensive experience in deploying strong user authentication in the banking and gaming industry. For some years VASCO is already bringing the experience from the financial market to the enterprise market and to application security. VASCO's DIGIPASS technology has a proven track record: it offers a solution for online data and identity theft by replacing static passwords by dynamic one-time passwords or PKI-based authentication.

### VASCO AND CITRIX

Small and medium enterprises can add high level security to the online access to their office applications simply by linking VASCO IDENTIKEY Server or DIGIPASS CertiID to Citrix Web Interface or Citrix Access Gateway. VASCO's DIGIPASS strong user authentication provides additional protection of confidential data and the access to business applications at affordable prices.

### CITRIX READY

VASCO has joined the CitrixReady program. Through the CitrixReady program, the VASCO solutions have been verified and validated as compatible with Citrix. Thanks to this, customers can easily enhance the security of their Citrix environment with VASCO DIGIPASS strong authentication.

The VASCO solutions are CitrixReady for:

- Citrix Web Interface which provides users with access to XenApp applications, content and XenDesktop virtual desktops.
- Citrix Access Gateway, a secure application access solution that provides administrators with application-level control while allowing users to access the applications with remote access from anywhere.

	Authentication type						Integration type					DIGIPASS				Documentation	
	Remote	Web	Application	LAN	Preboot	Secure mass storage	DIGIPASS Pack	IDENTIKEY	IDENTIFIER	DIGIPASS Plug-In	DIGIPASS CertiID	DIGIPASS for Mobile	DIGIPASS GO Series	DIGIPASS PIN pad devices	DIGIPASS Key Series	Integration Guide	Compatibility Guide
Citrix																	
Online/offline Citrix client plug in	x	x	x	x		x			x			x	x	x	x		
Citrix Web Interface Supported by XenAPP, XenDesktop	x	x	x			x	x	x	x		x	x	x	x	x	x	x
Citrix AAC	x	x	x			x	x	x	x		x	x	x	x			x
Citrix Access Gateway	x	x	x			x	x	x	x		x	x	x	x	x	x	x
Citrix Netscaler	x	x	x			x	x	x	x		x	x	x	x	x	x	x



## DIGIPASS AUTHENTICATION FOR CITRIX WEB INTERFACE (CWI)

VASCO strong user authentication easily integrates with Citrix Web Interface. By integrating directly with the Citrix Web Interface, the new authentication process is transparent to the end-user and does not require any additional steps or new logon screens.

The end-user experience is unaffected, while the organization enjoys enhanced security provided by two-factor authentication. VASCO strong user authentication easily integrates with Citrix Web Interface without undermining the existing software/application functionality.

### HOW DOES IT WORK?

End-users will be equipped with a VASCO DIGIPASS which will generate a one-time password (OTP) to securely connect to the Citrix environment. Citrix Web Interface will intercept the username and OTP at login and forward it to IDENTIKEY Server. IDENTIKEY SERVER will validate the user credentials. Once validated, the user is granted access to all authorized applications.

### BENEFITS

#### Citrix Ready

- IDENTIKEY runs with Citrix XenApp through Citrix Web Interface
- IDENTIKEY runs with Citrix XenApp with Citrix Access Gateway

#### Seamless integration

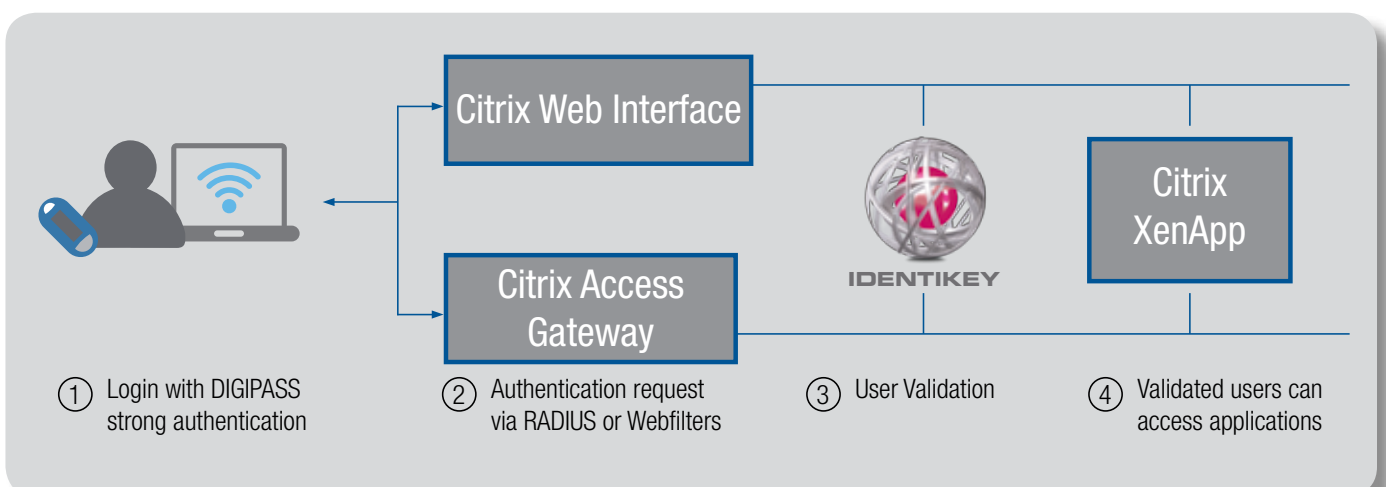
- No complex integration: easy to install and configure
- Up and running in no time
- Expandable when the need arises
- No extra administrative tasks

#### Low Total Cost of Ownership

- Leverages the existing infrastructure
- No new servers or appliances required

#### End-user convenience

- Direct integration with Citrix Web Interface
- Transparent authentication process for the end-user
- No additional steps or logon screens presented to the end-user



## DIGIPASS CertiID FOR PKI-BASED AUTHENTICATION ON CITRIX ENVIRONMENTS

Thanks to DIGIPASS CertiID Citrix customers can replace the use of insecure static password by PKI-based login. DIGIPASS CertiID will be installed on the server side, eliminating the installation of software on end-user workstations.

DIGIPASS CertiID can be used both for client-based and browser-based authentication to the Citrix environment. Browser-based authentication allows the end-user to log-on to the Citrix environment from virtually any PC with an Internet connection. End-users will be equipped with a DIGIPASS Key 860 or DIGIPASS Key 200 device, a USB key which is activated upon PIN-insertion.

The DIGIPASS Key device allows the end-user to set up a Citrix session no matter whether he is using a web connection, a PC or a Citrix client.

### HOW DOES IT WORK?

PKI-base login to the Citrix environment can be used in various ways:

- For PKI logon: The end-user will plug the DIGIPASS Key device when he boots the PC. PKI-based login will replace the traditional Windows/Citrix username and password login. For PKI-based login the DIGIPASS Key will request a PIN from the end-user. The PIN will be verified locally by the smart card with DIGIPASS CertiID installed on the server side. The authentication process is transparent for the end-user and single sign-on will be used to log-on to the Citrix environment.

- Secure data mass storage authentication before launching the Citrix session: the end-user will plug his DIGIPASS Key. In the Windows environment a DIGIPASS Key icon will appear. The end-user needs to click on the DIGIPASS Key icon and type his PIN-code. The PIN-code will be verified locally by the smart card using DIGIPASS CertiID installed on the client or using DIGIPASS CertiID embedded in the DIGIPASS Key . After launching the Citrix session, the end-user will be able to read the data stored onto the secured partition.

- Secure data mass storage authentication during the Citrix session: the end-user will plug his DIGIPASS Key when launching the Citrix session. In the Citrix session a DIGIPASS Key icon will appear. The end-user needs to click on the DIGIPASS Key icon and type his PIN-code. After verification, the end-user will be able to read the secured partition in the Citrix session.

- PKI features during the Citrix session: when using a Citrix client, the end-user will plug his DIGIPASS Key after having launched his session. On plugging his DIGIPASS Key a PIN will be requested. After verification the end-user will be able to use the PKI credential for any application in the Citrix environment.

### BENEFITS

#### Citrix Ready

- DIGIPASS CertiID runs with Citrix XenApp or XenDesktop
- DIGIPASS KEY runs with Citrix XenApp or XenDesktop

#### Seamless integration

- No integration
- Up and running in no time
- DIGIPASS CertiID is installed on the server side

#### Low Total Cost of Ownership

- Leverages the existing PKI infrastructure
- No new servers or appliances required

#### End-user convenience

- Transparent authentication process for the end-user
- No additional steps or logon screens presented to the end-user

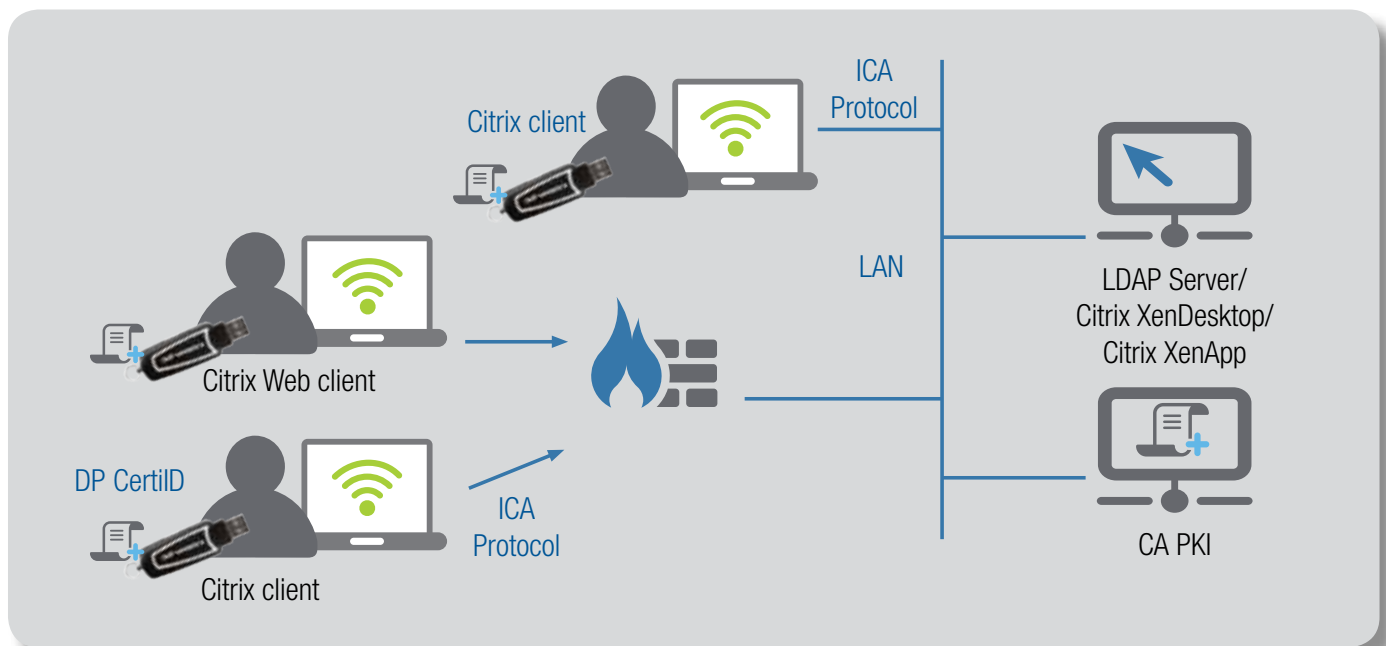
#### Multi-platform

- Works on Windows, MacOS and Linux

## SUPPORTED PLATFORMS

- Citrix Web Interface 4.5, 4.6, 5.0.1, 5.1.2, 5.2, 5.3
- Citrix XenApp 4.0, 5.0, 6.0
- Citrix XenDesktop 3.0, 4.0
- Citrix Client, plugins Online, Offline and web: V10.150 to 12.0.3.
- Citrix Access Essentials, Citrix XenApp Fundamentals
- Citrix AAC 4.5
- Citrix Access Gateway
- Citrix Netscaler
- OS Server : Windows Server 2003 R2 Standard, Windows Server 2003 R2 Enterprise (x86 et x64). Windows Server 2008 R2
- Supports CWI running on Windows IIS 6, IIS 7, IIS 7.5

For more information: [www.vasco.com/citrix](http://www.vasco.com/citrix)



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