The Move to Virtualized Infrastructures and Private Clouds
Organizations have been turning to virtualized desktop infrastructure (VDI) and private clouds for greater security, business agility, and cost efficiencies.

However, to protect the integrity and confidentiality of data residing in their virtualized environment, whether streamed from the data center or accessed through a private cloud gateway, organizations still need to ensure that users are who they claim to be when accessing these solutions and infrastructure.

Obstacles to Securing Virtual Environments
Organizations wishing to secure access to their virtualized environments are confronted with several key challenges, namely:

> **Endpoint diversity** - Thin clients, zero clients, servers, and mobile BYOD devices that double for personal and corporate use all require a device-agnostic authentication strategy.
> **Password vulnerability** - Organizations gating their virtualized environments solely with a password jeopardize their information assets, and expose them to threat vectors such as phishing, social engineering, brute-force attacks, generic malware, password guessing, and credential theft.
> **Ubiquitous access** - While some organizationsDeploy their virtualized infrastructure within the enterprise firewall, others offer access to consultants or partners located outside the corporate firewall (in the DMZ). This makes strong authentication crucial, as well as the ability to provision secure access remotely.

Simple, Strong Authentication from Gemalto
Gemalto’s suite of SafeNet Authentication Solutions deliver secure access to virtualized infrastructure:

> **From any device**, including thin clients, zero clients, and BYOD mobile devices
> **To any VDI application**, thanks to out-of-the-box integrations with Citrix, VMware, and AWS for a quick and easy deployment
> **At any assurance level**, via the broadest range of authentication methods
> With **on-premises or as-a-service delivery** of strong authentication

Key Benefits

> **Enhanced security**
> **Frictionless authentication**
> **Reduced administration overheads**
> **Simplified compliance**
> **Compliance** - To pass security audits and comply with regional, industry, and corporate governance regulations, enterprises need to demonstrate that they know who is accessing what and when.
> **Budgetary constraints** - To keep within their current budgets, in terms of both hard and soft costs, organizations may waive stronger access controls to their most valuable information assets and resources.
Gemalto’s Frictionless Management Strategy

Gemalto’s solutions reduce IT management overhead and simplify compliance through:

- Zero-touch user and token lifecycle administration, including auto-provisioning, updates, and revocation of permissions and tokens
- A single point of management for defining access policies once and enforcing them throughout your IT ecosystem
- Management by exception, achieved via real-time threshold-and event-based alerts
- A unified audit trail of all access events across on-premises, virtual, and cloud-based resources
- Native identity federation, allowing you to secure SaaS applications with the same authentication solution used to secure the corporate VDI

Supported Authentication Methods

- One-time passcodes (OTP)
- Out-of-band (OOB) via push notification, SMS, and email
- Context-based authentication
- PKI certificate-based authentication
- Pattern-based authentication

Available Form Factors

- Hardware tokens (USB, key fobs, and smart cards)
- Bluetooth Smart PKI readers
- Software tokens
- Phone-as-a-token

Gemalto Authentication Platforms

- SafeNet Authentication Service
- SafeNet Authentication Manager

About Gemalto’s SafeNet Identity and Data Protection Solutions

Gemalto’s portfolio of Identity and Data Protection solutions offers one of the most complete portfolios of enterprise security solutions in the world, enabling its customers to enjoy industry-leading protection of data, digital identities, payments, and transactions—from the edge to the core.

Gemalto’s SafeNet Identity and Data Protection solutions enable enterprises across many verticals, including major financial institutions and governments, to take a data-centric approach to security by utilizing innovative encryption methods, best-in-class crypto management techniques, and strong authentication and identity management solutions to protect what matters where it matters.

Through these solutions, Gemalto helps organizations achieve compliance with stringent data privacy regulations, and ensure that sensitive corporate assets, customer information, and digital transactions are safe from exposure and manipulation in order to protect customer trust in an increasingly digital world.

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