

# Gemalto Strong Authentication Solutions

Integrate Secure Network Access With Microsoft® Forefront™

FINANCIAL SERVICES & RETAIL

ENTERPRISE > PRODUCT

INTERNET CONTENT PROVIDERS

PUBLIC SECTOR & TRANSPORT

TELECOMMUNICATIONS



# Advanced Network Protection

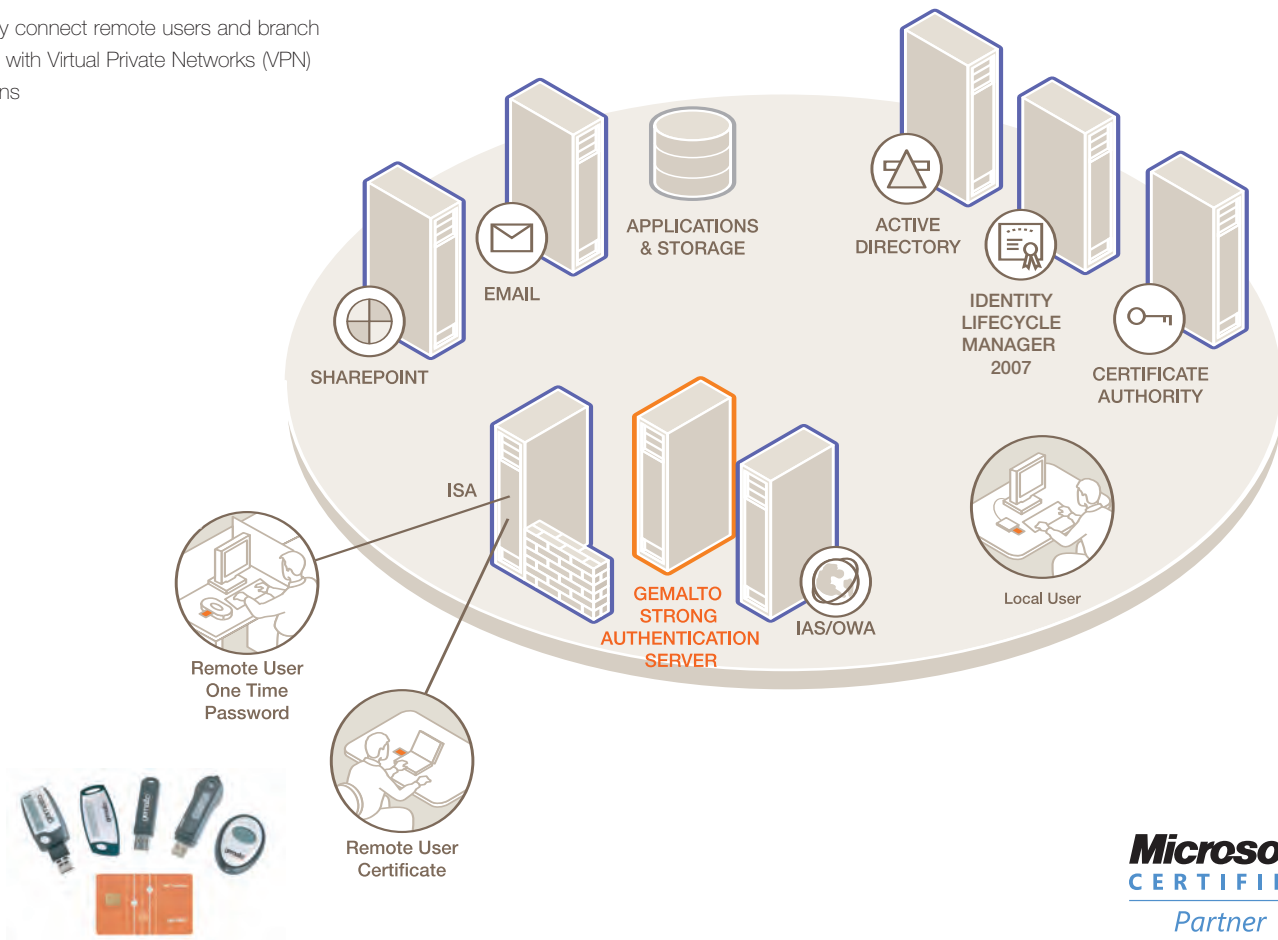
## Gemalto Strong Authentication Enhances Microsoft Forefront Security

Microsoft is addressing the need for pervasive network security with Forefront, a comprehensive product suite that can be integrated with existing architectures to protect networks and simplify security system management. Microsoft Internet Security and Acceleration Server (ISA Server) is a key component of Forefront that enhances end-user productivity and network security by enabling remote access to applications and data with single sign-on functionality. ISA Server also helps increase network security by enabling IT organizations to:

- Pre-authenticate users for application access and protect against Web-based threats
- Securely publish Exchange, SharePoint®, Outlook® Web Access (OWA) and other web servers
- Easily connect remote users and branch offices with Virtual Private Networks (VPN) solutions

Because the integrity of a VPN solution, and the enterprise network itself, depend on access only by authorized users, a strong two-factor authentication system can add an incremental level of security to protect against unauthorized access. Two-factor authentication protects VPNs by requiring something the user knows (for example, a user name and password or personal identification number) and something the user has in their possession (such as a security token, one-time password or a smart card) to access the network.

Gemalto's strong authentication server has been certified by Microsoft for deployment with ISA Server. Because the two products are interoperable and fully compatible, enterprises of all sizes can easily deploy strong authentication solutions for secure access to VPNs and Outlook Web Access, SharePoint and other Web servers. This integrated solution enhances overall network security and helps increase operational efficiency and productivity with on-demand access to applications and data. It also helps ensure compliance with international and federal regulations that mandate the use of strong authentication for access to enterprise networks.



# Gemalto Strong Authentication Solution

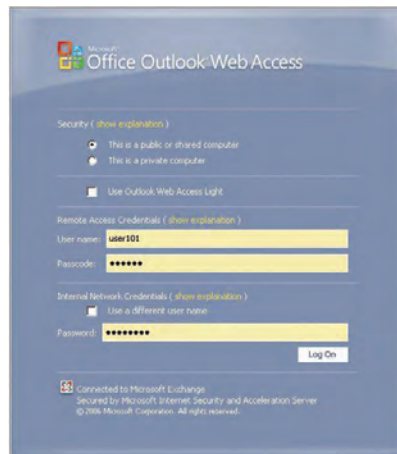


Gemalto is the world's largest smart card supplier and a Microsoft Identity and Access and ISA Server Ecosystem partner. Leveraging the strengths of its smart card technology, Gemalto strong authentication solutions consist of a family of compatible end-user authentication devices, a browser plug-in, an authentication and customer care server, and a self-service user care portal. Every end-user authentication device contains a Gemalto smart card module which securely stores user information and keys, generates a one-time password and performs cryptographic functions. These features enable IT organizations to provide secure pervasive network access and offer certificate-based services, while protecting each user's privacy and identity.

Various form factors, including USB and standalone devices, are available to support a full range of end-user requirements. In addition, the Gemalto .NET smart card offers two-factor authentication and supports the certificate-based services in Microsoft's .NET framework. Gemalto strong authentication is natively supported in Windows® Vista™ and end-user devices can be provisioned with Microsoft Identity Lifecycle Manager 2007.

Gemalto strong authentication solutions deliver a lower total cost of ownership relative to alternative solutions, and provide true anti-phishing security when used in a connected mode. Organizations can deploy them for secure user authentication and implement more comprehensive identity protection solutions without being forced to abandon infrastructure investments or change end-user devices.

Gemalto strong authentication solutions can be used for one-time password applications and also support the certificate services and pervasive security features in Microsoft's Windows operating system. They can be deployed with Microsoft Active Directory®, Internet Information Services (IIS) and RADIUS Internet Authentication Service (IAS).



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