

One Touch[®] CSP

Add-on Application for DigitalPersona[®] Pro



Requirements:

- DigitalPersona Pro Workstation v4.0 or later installed on the computer
- DigitalPersona Pro Server v4.0 or later installed on the Active Directory network
- Windows 2000 Professional, Server or Advanced Server, Windows Server 2003 Enterprise
- Windows Vista (Business, Ultimate or Enterprise), XP Professional
- U.are.U Reader, U.are.U Keyboard or a supported reader embedded in a notebook
- 5 MB of available hard disk space

As enterprises move away from paper to electronic documents, forms and communication there needs to be mechanisms in place to make sure these electronic records are resistant to modification and tampering. Today, in most cases, changing text in a file or numbers on a spreadsheet can be done by anyone without leaving a trace. Sarbanes-Oxley, HIPAA and other regulations have identified this security hole and require a strong audit trail of everyone who has authored or modified any electronic document.

Microsoft and Adobe have incorporated into their business applications digital signature methods to accomplish a strong bond between the author and the content of any electronic document. Each user is issued a digital certificate from a certificate authority (CA) and is required to keep secure their private key associated with this certificate. The user's private key is accessed to generate a digital signature of a document.

DigitalPersona's One Touch Cryptographic Service Provider (One Touch CSP) extends this capability to require that the private key can only be accessed after the user's fingerprint is verified. This strengthens the security of the signature without subjecting the user to additional burdens such as having to carry a smart card which contains the private key.

One Touch CSP

One Touch CSP enhances security by requiring users to electronically sign a document or email using fingerprint authentication. One Touch CSP protects a user's cryptographic keys against unauthorized use by granting access to the user's keys only upon a successful authentication of the user's registered fingerprint.

One Touch CSP can be added to an existing DigitalPersona Pro v4.0 or later environment and utilizes the Pro authentication framework.

DigitalPersona Pro Server makes the user's keys available on every computer on the network running Pro Workstation, as opposed to the keys only residing on the computer on which they were created.

One Touch CSP does not perform any cryptographic operations on its own. It relies on the default software CSPs that ship with Microsoft Windows. New keys are generated by the Microsoft CSPs and then exported into DigitalPersona Pro for storage in the Active Directory database together with other protected data of the user. When an application requests a cryptographic operation from the Microsoft CryptoAPI using those keys, One Touch CSP retrieves the keys upon successfully authenticating the user with their fingerprint. It then provides the keys to the available Microsoft software-based CSPs which perform the cryptographic operation requested by the application.

Application Support

One Touch CSP is intended to be a general purpose CSP supporting any user application that uses the Microsoft CryptoAPI such as:

- Internet Explorer 7 and IE 6
- Microsoft Outlook 2003 and later
- Outlook Express 6+
- Microsoft Office 2000, 2003 and later (including InfoPath 2003 SP1)
- Adobe Acrobat Reader 6.0 and later PDF files



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