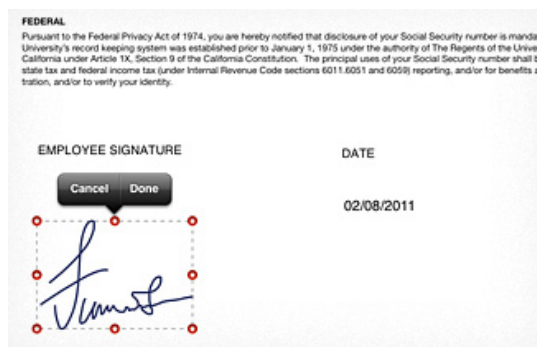


Secure document signing with PDF Expert Enterprise



Introduction

PDF Expert Enterprise allows signing contracts, agreements, NDAs, forms and other documents electronically. Paperless contract execution lets companies save front/back office costs on labor, printing, scanning, faxing, mailing and storing paper documents.



The challenge for any e-signature solution, particularly in customer-facing environments, is to replace ink signing with something that provides the same sense of security as traditional signatures on paper. Capturing handwritten signatures with the iPad is the natural replacement, which everyone understands immediately. It allows signers to feel more comfortable with the process and provides a sense that electronic signing is a serious event.



Digital Signature

PDF Expert Enterprise makes e-signing process secure and reliable. Once a signature is captured, the document is sealed with a digital certificate. Any subsequent change to the document will result in the signature being invalidated.

A document signed with PDF Expert Enterprise is locked against future modifications, which can be viewed and verified using the free Adobe Reader application on Mac or PC.

Biometric signature

A handwritten signature captured with PDF Expert Enterprise is much more than just an electronic image of a signature embedded in a PDF. Handwritten signature of a person is recorded including pen path, acceleration and speed. These parameters are unique to every individual and cannot be easily reproduced by a forger. In case of a dispute, you can use your e-signed document to prove that the signature has really been performed by the signer.

The biometric data is encrypted with the specific document key and stored within each signed PDF document. This makes it impossible to extract the legitimate electronic signature data for forging purposes.

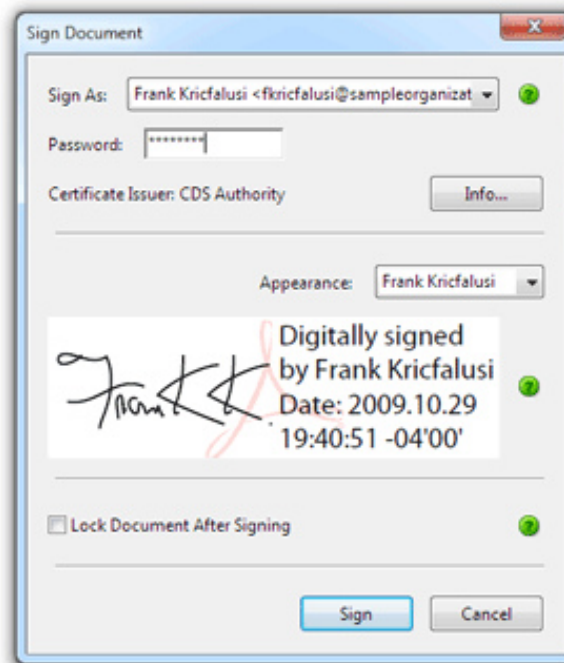
Security concerns

Thus using digital certificate and encrypting the biometric signature data within the PDF document provides a secure solution to demonstrate the authenticity of a document. It also gives the recipient reason to believe that the document was signed by a trusted party and that it was not altered in transit.

Using digital signatures in PDF Expert Enterprise

To sign documents digitally in PDF Expert Enterprise you need to have:

- A valid Digital Signature Certificate
- Digital Signature Fields in your PDF forms

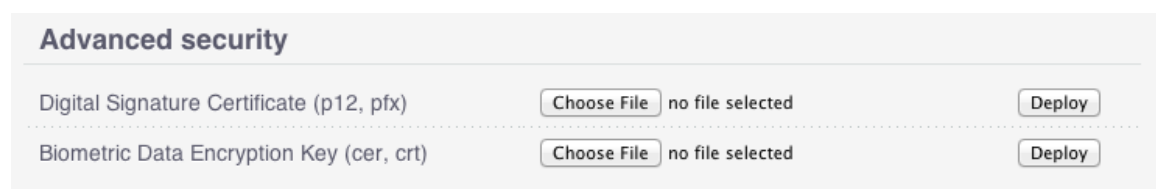


Digital Signature Certificate can be either created in Acrobat X Pro. Acrobat X Pro enables formal signer's verification through powerful encryption and public key infrastructure support. You can also sign and certify PDF files using a higher assurance digital signature verified by a trusted third-party certificate authority through the purchase of a digital ID.

How to insert the Digital Signature Certificate and the Biometric Data Encryption Key to PDF Expert Enterprise?

On PDF Expert Enterprise administration panel:

Insert your Digital Signature Certificate (either .p12 or .pfx files) and your Biometric Data Encryption Key (either .cer or .crt files) via the Configuration tab.



Advanced security		
Digital Signature Certificate (p12, pfx)	Choose File no file selected	Deploy
Biometric Data Encryption Key (cer, crt)	Choose File no file selected	Deploy

In PDF Expert Enterprise iPad application:

- Tap on the Digital Signature Certificate file. PDF Expert Enterprise will prompt you to import the Certificate. You will need to enter your password, which have been previously set to the Certificate.
- Tap on the Biometric Data Encryption Key file. PDF Expert Enterprise will prompt you to import the Biometric Data Encryption Key.

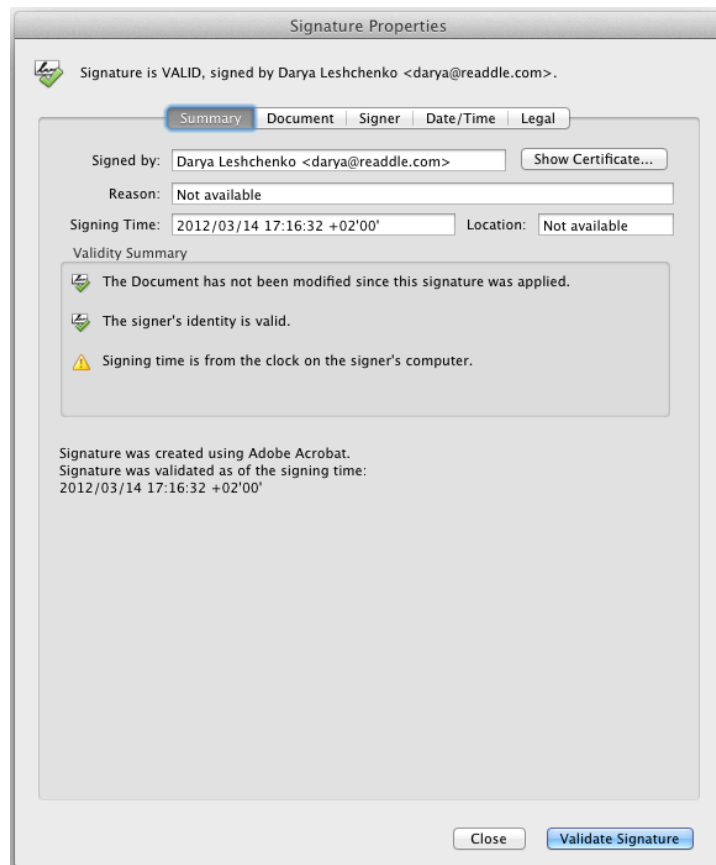
You can always check the configuration inside the PDF Viewer tab of PDF Expert Enterprise Settings on your iPad.



Certificates	
My Signature	Default >
Customer Signature	Default >
Biometric Data Encryption Key	Darya Leshchenko >

How to analyze the signer's identity?

Having been delivered a document signed in PDF Expert Enterprise, recipients can use the free Adobe Reader software to validate the authenticity of signed documents with certificate authorities.



How to check the PDF document for authenticity?

If any modifications have been performed to the document after being signed, they will be outlined in Adobe Reader.



How to analyze the Biometric Data?

PDF Expert Enterprise records the handwritten signature of a person by parameters of pen path and duration of the signing process. These parameters are unique to every individual and cannot be easily reproduced by a forger. The Biometric Data collected during the handwritten signature process can be decrypted only with your private key for further investigation.



Conclusion

Electronic signatures made with PDF Expert Enterprise are legal and secure thanks to Digital Signatures support. This lets both the company and the customer check the authenticity of a document signed on the iPad. The document is also sealed to ensure that it hasn't been changed after all signatures were in place.

PDF Expert Enterprise also gathers the Biometric Information about the signature to fight possible fraud. This data is encrypted and stored in each signed PDF document so that it can be compared against other signatures of the same person.

With all these security enhancements PDF Expert Enterprise lets you worry less about document validity and forgery, so you can focus directly on your business.