



# E-Lock FormSeal

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PLATFORM INDEPENDENT SIGNATURE TOOL

E-Lock FormSeal is available for both UNIX / LINUX clients and Windows Clients.

For platform Independence, FormSeal utilizes JRE (Java Runtime Engine) and works flawlessly with UNIX/LINUX Clients.

For Windows clients, JRE is not required and the FormSeal client component autodownloads onto users machines.

## OVERVIEW

E-Lock FormSeal is a digital signature tool that can be integrated into any existing web application, to enable digital signing and verification from within the application itself. FormSeal uses digital certificates (X.509) to digitally sign data. Through FormSeal, users (clients) can digitally sign and submit information to the server (organization). On receiving the users' data, the server verifies the information before accepting it and returning a receipt to the user for the transaction.

## HOW FORMSEAL WORKS

FormSeal is based on a client server model. The Client component enables users (on the client side) to digitally sign and submit data through forms. The FormSeal Server component receives and verifies the information received from users.

## SIGN HTM FORMS OR PDF DOCUMENTS

FormSeal allows for signing of

- HTML Forms and Documents
- PDF documents

For PDF signing, Adobe Acrobat Reader is a minimum requirement on the client side. When the user chooses to sign a PDF document, a page opens up with 2 frames, the top frame displays the PDF document and the bottom frame contains a button to sign the file. The signature is embedded in case of PDF files.

## PLATFORM INDEPENDENT OR WINDOWS




E-Lock FormSeal is available for both LINUX/UNIX or Windows clients. For the former, JRE is used to ensure platform independence. In case of Windows clients, the client component autodownloads onto the users machine. FormSeal automatically detects if the client is Windows (in which case the client component autodownloads) or if it is a UNIX or LINUX client (in which case the user is directed to download JRE and the FormSeal client component if not already present)

## DIGITAL SIGNATURE TOOL






FormSeal is a tool with comprehensive documentation that developers can refer to for integration of FormSeal into any web application. You can opt to have your own developers integrate it OR have our engineers integrate it into your application. The advantage here is you get the benefit of our specialized experience in the area of digital signature solutions and integration.

You can also avail our customization services to customize FormSeal to your needs. Apart from the range of features that FormSeal provides - such as digital signing, verification, certificate validation, data integrity checking, certificate revocation/expiry checking and transaction receipts - FormSeal can incorporate any additional features that you may require.

## Typical Workflow

-  1 Client fills form and submits information
-  2 Information is sent to the Server
-  3 The Backend processes the information

## FormSeal in your Workflow

-  1 Client connects to Server  
Automatic detection of Client component
-  2 Client fills form and clicks the Submit button
-  3 The FormSeal Signing Engine is initiated and the client can choose a digital certificate to sign data -----> FormSeal Signing engine
-  4 The FormSeal Server component receives the signed data and performs verification and validation checks -----> FormSeal Verification engine
-  5 The FormSeal Server component passes the verification information to the backend which sends a customizable Receipt to the user conveying the result of transaction and processes the data further.



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For more  
information,  
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FormSeal is an E-Lock digital  
signature tool.

E-Lock is a trademark of Frontier  
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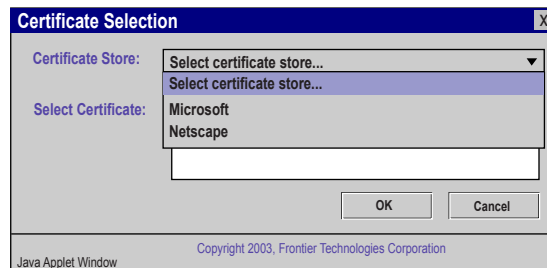
## DIGITAL SIGNING OF FORM DATA

When users submit data through forms, on clicking the submit button the information is sent to the backend for processing. FormSeal intervenes in this process, and enables users to select a certificate from their computer to sign the data they would like to submit. When you submit a form, what you submit are name value pairs in the context of the form. FormSeal digitally signs this information along with the images and the html content and sends it to the Server. This maintains the context of the information signed and submitted.

## CERTIFICATE SELECTION FROM IE & NETSCAPE

Usually, you can select certificates only for a particular security framework. For instance, if you are using Internet Explorer, you will only be able to choose those certificates that have been acquired using IE and that reside in the Microsoft Security Framework. The same is true of Netscape, where you can only select certificates acquired through the Netscape browser and that reside in the Netscape Security Framework.

With FormSeal you can select certificates from both IE and Netscape, irrespective of which browser you are using and irrespective of which framework the certificates reside in.



## PKCS #7 COMPLIANT SIGNATURES

FormSeal generates PKCS #7 compliant signatures which is a standard for signed files. You can also extract a signed file and verify it locally using a free desktop verification utility we provide.

## PLATFORM INDEPENDENCE

Since FormSeal has been developed using Java technology, there is no restriction on the platform used by the client. This provides platform independence and ensures that your application will work for all your users, clients, partners, and trading parties who can now all transact securely with your organization.

## DIGITAL SIGNING OF ATTACHMENTS

FormSeal also supports digital signing of attachments. Any attachment that you submit will get digitally signed along with the other information in your form.

## DATA VERIFICATION BY SERVER

The FormSeal Server component receives the data signed and submitted by users. It verifies the data and performs several verification checks.

## DATA INTEGRITY CHECKING BY SERVER

Data Integrity checking refers to ensuring that the data submitted by the user has not been changed or tampered in any way in transit. This check ensures that what the user submitted is what the server receives.

## CERTIFICATE VALIDATION BY SERVER

This refers to ensuring that the digital certificate used by the user/client to sign data has not expired. The certificate is also checked for revocation, as in some cases the certificate may have been revoked for some reason. Also, a check is performed for certificate trust. What this means is that the server must trust the root certificate of the certificate used to sign the data.

## TRANSACTION RECEIPTS

If the user completes the transaction successfully – that is if data is signed, submitted, and successfully verified by the server – then a receipt is returned to the user for the transaction. This receipt can be customized.

View a demo at <http://formseal.elock.com>

www.elock.com