



eSign Transaction Management Suite™

SmartIdentity™ Product Spotlight

With eSignSystems' eSign Transaction Management Suite (eTMS), organizations can immediately achieve:

Regulatory Compliance — eTMS is compliant with numerous regulations, legislation and standards including: ESIGN, UETA, Revised Article 9 of the UCC, SPeRS and GPEA.

Greater Efficiency — Faster, more efficient business processes, even for complex transactions involving multiple decision makers, approval points and signatures.

Cost Savings — Significant cost savings and return on investment through elimination of document transportation costs such as mail, overnight and courier expenses; elimination of material and processing costs, such as, copying, printing and paper; and elimination of storage costs such as filing systems, warehousing and security.

Better Control — Improved control over access to electronic information, with the ability to authenticate the identities of participants in b2b, b2c, g2g, g2b and g2c transactions.

Increased Productivity — Enhanced productivity, with better use of staff and equipment resources.

INTRODUCTION

The eSign Transaction Management Suite (eTMS) from Wave Systems enables organizations to manage business processes and transactions entirely online. eTMS is flexible, with modular components that can be easily customized to suit an organization's specific requirements.

eTMS enables organizations to create, sign, store, access and manage the lifecycle of legally binding electronic records. eTMS is an integrated suite of applications that provides the functionality necessary to meet the technical and legal requirements of transactions governed by ESIGN, UETA, Revised Article 9 of the UCC, SPeRS and GPEA.

The eTMS product set includes:

- SmartIdentity™
- SmartForms™
- SmartSignature®
- SmartSignature® Server
- SmartSigning™ Room
- SmartClose™
- SmartSAFE™
- SmartConnect™

PRODUCT SPOTLIGHT

SmartIdentity™ Services

The first step to preserving document integrity is to validate the identity of the parties involved. Through the flexibility of SmartIdentity Services, Wave provides identification of users online using an Equifax® patented process. After authentication, a customer can be issued a username/password or digital certificate for signing. The SmartIdentity Services are optional and are not a required component of the eTMS.

For username/password-based credentials, your organization can allow users to create new account credentials for use within your system as well as with any of the eTMS signing solutions and the SmartSAFE. Optionally, SmartIdentity authentication can be combined with Wave's Public Key Infrastructure (PKI) system, whereby Wave issues authenticated digital certificates to individuals in one browser session.

Now, your organization can safely interact with individuals where no previous trust relationship exists. One simple authentication method...three signing options.

Step 1: Identity Authentication

The authentication process requires the collection of certain key information from the potential signer, which is then transmitted by Wave to Equifax, a credit reporting service, for a data integrity check. This step renders a risk assessment. Equifax then provides up to six questions with multiple-choice answers to present to the potential signer. The questions and answers are drawn from Equifax's credit file on the purported signer and presented as an interactive query to the potential signer, who must respond correctly to a minimum number of questions. Once the customer answers the questions, the answers are transmitted to Equifax. Equifax provides Wave with an overall risk assessment and a score reflecting the data integrity check and the correct number of answers. Wave does not have the answers itself, and does not know which of the multiple-choice answers provided by the potential signer are correct. If the potential signer does not receive a passing score, the signer is referred to a manual process to obtain a certificate. This process entails a more thorough face-to-face identify verification, including notarization.

Step 2: Digital Certificate Issuance

If a digital certificate is also requested, a public and private key is generated on the signer's computer using functionality built into the Microsoft Windows® operating system. Once identity has been verified in accordance with the procedures described above, the public key and identification information (including name and e-mail address) is then passed to the certificate authority, which issues a certificate for delivery to the customer. Wave never has access to the private key. The digital certificate is stored in Internet Explorer's certificate storage utility or the user's designated hardware device (such as a TPM, smart card or token).



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SmartIdentity™ Product Spotlight

Step 2: Digital Certificate Issuance (cont'd)

The Certificate Authority will create the digital certificate immediately and Wave will present it to the user for installation. This will allow the signer to go from authentication to digital certificate issuance in one browser session.

For individuals that are required to go through the offline process, an email for digital certificate pickup will be issued within seconds of the SmartIdentity Administrator's approval.

The certificate can be installed on the browser or into client-specific hardware; such as, a smart card or token.

For more information on Wave's Certificate Authority and vetting process, please reference the Enterprise Certificate Practices Statement at www.signonline.com/cps.html

TECHNICAL REQUIREMENTS

User requirements include:

- Internet Explorer 5.5 SP2 or higher
- Windows 98 or higher

IMPLEMENTATION

SmartIdentity is a stand-alone, optional service that can be implemented at any time. If the SmartIdentity service is used only for authentication it can be accessed via web services. If digital certificate issuance is also requested, a client must integrate with Wave's SmartIdentity site.

In each case, Wave Systems works hand-in-hand with its clients to implement the eSign Transaction Management Suite. An Implementation Manager (IM) guides each client through the process. The IM helps mold a solution to fit particular needs, then helps a client re-check to make sure all steps and testing are complete before the client goes live.

If substantial customization is needed, a member of our professional services team will be sent to the client to develop a project specification plan to handle the customization process. There is a one-time charge for the development of the project specification document and for any customized development.

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