

## MAKING DIGITAL SIGNATURES USEFUL

### Who We Are

Since 1995, Kyberpass has been helping organizations to overcome the challenges of building and deploying high-trust applications for corporate enterprises. Kyberpass recognized two very important issues. First, building high-trust applications should not be a one-off integration of a series of security technologies done on a custom basis for a specific customer. Rather it should be a highly integrated, re-useable platform, which hides the details and complexity of the underlying technologies. Second, trust is only as good as the underlying party providing the trust. For this reason, Kyberpass was one of the first companies to recognize and implement the Identrus™ business integration solution. Identrus banks are trusted third parties (TTPs), which underpin the entire trust infrastructure.

### The Problem

As businesses re-engineer their business processes to remove costs and improve efficiencies, a major challenge is the security of those processes. Companies are moving to electronic systems for:

- Regulatory filings
- Electronic payments
- IP protection
- Business forms processing

As these business objects move electronically throughout an organization, how can they be kept secure?

### What We Do - Digital Signature Enablement

Digital signatures have long been recognized as a viable identity solution for electronic transactions. Given the proper structure, a digital signature is the legal equivalent of a wet signature in a paper-based system. A significant amount of legislation has been passed allowing the use of electronic signatures, including digital signatures. However, few organizations have taken advantage of digital signatures because the implementation of this technology has been difficult.

Kyberpass has removed the complexity of implementing digital signatures for enterprise applications. The Kyberpass TrustPlatform™ provides a simple application programming interface (API) by means of easy-to-integrate code classes, which link the application to the trust infrastructure. The trust infrastructure can consist of an Identrus-based, Public Key Infrastructure (PKI) system or any of the popular certificate authorities (CAs).



### Why We Do It

Paper-based systems are expensive and difficult to manage, especially in a highly distributed enterprise. Preserving the integrity of information, the security of data, ensuring the identity of individuals, and the rights of those individuals to sign documents are all challenges faced by corporations today. Electronic systems make all these challenges attainable, but are they secure?

Kyberpass meets the requirements of electronic transaction security by providing the components of a standards-based, security infrastructure. The Kyberpass TrustPlatform provides:

- Digital identity of users
- Data security
- Data integrity
- Non-repudiation

Now, organizations can have true, end-to-end, secure, electronic transactions, which replace complicated, expensive, paper-based systems.

### The Benefits

Moving from paper-based reporting to a full electronic, end-to-end, process has multiple benefits:

- Improved efficiencies
- Maximum utilization of IT assets
- Consistency of reporting
- Improved security
- Reduced long-term costs
- Ability to provide centralized control of policies and procedures

In a server-managed, signing environment, authentication of users and signing policies and procedures can be controlled from a central point. This will improve overall business process and maintain consistency.

### A Case in Point - SAFE

About three years ago the pharmaceutical industry determined that it needed a consistent way to identify members of a collaborative group of users and to secure the information those users were sharing. From electronic lab (eLab) notebooks to new drug applications (NDAs) - identity and information security were essential to the success of an electronic collaboration effort. Out of this need was born SAFE - "Secure Access for Everyone", which established a common set of user credentials across companies throughout the entire industry.

The underpinnings of this security mechanism are digital signatures and a trusted back-end, security infrastructure. Now, companies can trust-enable their business applications (document management, eLab notebooks, clinical trials reporting, etc.) and utilize the Kyberpass TrustPlatform to tie those applications to either an internal or external trust infrastructure. In this way users are authenticated and information is protected throughout the entire collaborative community.

Drugs get to market faster and companies can now handle more submissions with the same IT assets since the system is much more efficient. This all leads to lower costs and improved productivity.

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