E-Lock S/MIME ToolKit

Securing communication – a challenge

Cost effective and easy to use email communication has become the primary means to communicate both internally (within the organization) and externally (with the stakeholders). No surprise the increasingly sophisticated networks of criminal hackers, spammers, and phishers are targeting email communication. In addition to this, organizations have to manage email communications to protect intellectual property (IP), be proactive against lawsuits, and ensure compliance with regulatory mandates, like Health Insurance Portability and Accountability Act (HIPAA), Sarbanes-Oxley (SOX). This has enforced organizations to think of Email Message Security as the major issue of concern.

E-Lock S/MIME ToolKit – Securing Messages

E-Lock S/MIME ToolKit provides ways to integrate capabilities like signing, encryption, verification and decryption into email system. Signing the emails assures authenticity and integrity of the email data. Encrypting the signed email provides an extra security cover, which protects the message data from being exploited. It also increases the probability of emails reaching the destination rather than getting filtered by the anti spam software

E-Lock S/MIME ToolKit can be effectively used for application-to-application communication. Organizations like RosettaNet have defined extensive standards to automate the communication between disparate applications like supply-chain, transport, procurement, dispatch and delivery. S/MIME ToolKit is compliant with RosettaNet standards

S/MIME ToolKit Features:

- **Digital Signing:** The E-Lock S/MIME ToolKit enables digital signing of the e-mails. It supports certificates from Microsoft Internet Explorer, any Netscape family browser and Java keystore.
- **Encryption:** SMIME ToolKit protects sensitive data by encrypting e-mails using standard encryption technique.
- **Verification:** The S/MIME ToolKit enables verification of digital signatures in the e-mails. The Public keys of several popular certification authorities (CA) are distributed both with e-mail clients and with many popular operating systems. Thus the receiver can readily verify the digitally signed mail using any popular e-mail client.
- **Decryption:** The encrypted e-mails can be easily decrypted using S/MIME ToolKit
- **Platform independent, integrates with existing infrastructure:** The E-Lock S/MIME ToolKit is implemented in Java and thus is platform independent. It can be integrated into any email application or infrastructure.
- **Automated, unattended signing and encryption:** S/MIME ToolKit can be integrated with applications that send automated mails. It enables signing and encrypting such mails without any manual intervention.
- **Compatibility:** e-mails signed and encrypted using E-Lock S/MIME ToolKit can be verified and decrypted using the Outlook Express/Microsoft Outlook and vice versa

Benefits

- **Builds trust in e-mail communication:** The use of Digital signatures and encryption techniques builds the trust in e-mail communication by ensuring data integrity and authenticity of sender.
- **Assured delivery of e-mails:** Signing the e-mails increases the probability of emails reaching their destination rather than getting filtered by anti-spam or junk mail programs.
- **Authenticity of e-mail communication**: Receiver is guaranteed that the email belongs to the legitimate / authentic sender
- **Compliant solution:** E-Lock S/MIME solution is compliant with S/MIME standards as defined by RFC2311. It is also compliant with RosettaNet (www.rosettanet.org) standards. These standards define automation of the communication between disparate applications like supply-chain, transport, procurement, dispatch and delivery.
- **Value for money:** Use of E-Lock S/MIME solution is a cost effective way to safeguard the sensitive e-mail message against the risks of data leakage and tampering.

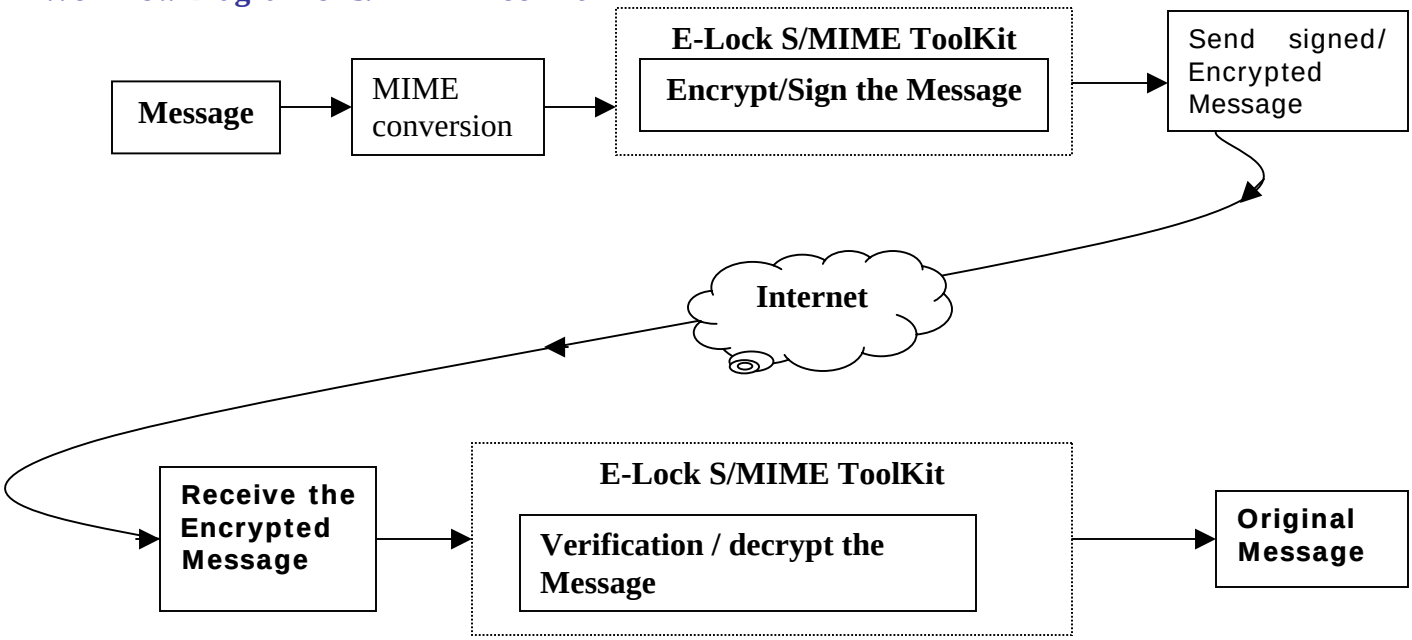
Technical Requirements:

- JRE version 1.4 and above

Supports keys and certificates from:

1. MS Internet explorer Keystore (on Windows platform)
2. Netscape/Mozilla Keystore (on all platforms)
3. Java Keystore (on all platforms)

Workflow Diagram of S/MIME ToolKit



About E-Lock:

E-Lock is leading brand of Digital Signature products and solutions. E-Lock has developed a range of solutions that have enabled organizations as well as individuals to move towards a secure, legal, paperless environment. The E-Lock products and solutions are compliant with various laws that affect the management of electronic information.

For more information, please visit http://www.elock.com