



# Boundary Encryption Service v1.2

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## The MessageLabs Difference

- Total email confidentiality ensured by encryption of every part of all messages sent and received
- Cost-effective, affordable method of ensuring the integrity of email communications
- Harnesses Transport Layer Security (TLS) to encrypt the whole email connection between sender and recipient network boundaries, not just the email content
- Requires minimal in-house management and avoids the need to use or invest in complicated in-house hardware or software
- Operates seamlessly alongside other MessageLabs services, enabling all email security needs to be met with one provider

## Analyst View

MessageLabs is positioned in the "Leader" quadrant in the Magic Quadrant for E-mail Security Boundary, 2006. Gartner defines "Leaders" as vendors that are performing well today, have a clear vision of market direction and are actively seeking competencies to sustain their leadership position in the market.

Gartner Magic Quadrant for E-mail Security Boundary, 2006 by Peter Firstbrook et al., September 25, 2006

## How secure are your email communications?

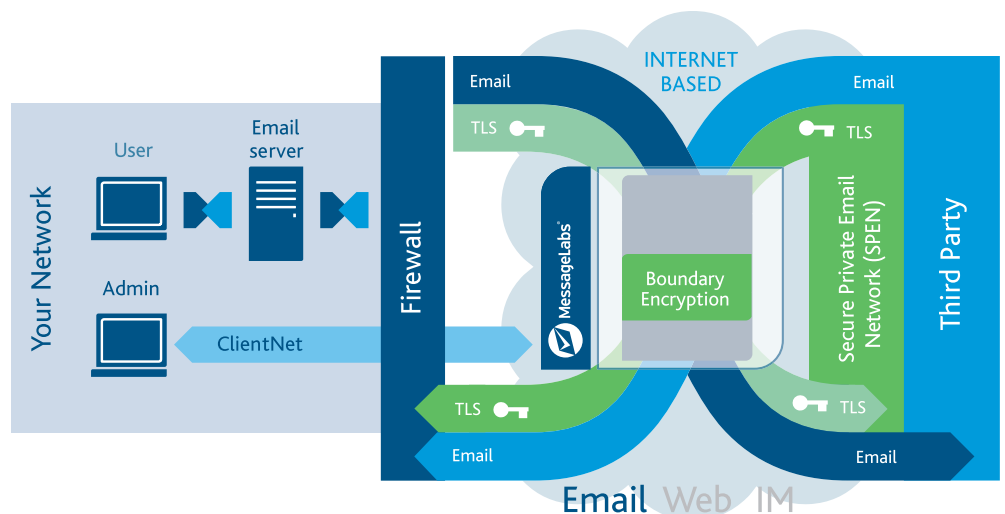
Email is firmly established as a key business communication channel. However, communicating using email involves risks. Intellectual property or other sensitive information may be intercepted and then read, deleted or altered before it reaches its intended destination. Regulations and legislations are also increasingly holding businesses responsible for safeguarding the confidentiality of the information they send via email.

Despite the potential price of failing to ensure adequate protection, many organizations do not take the steps necessary to safeguard the privacy and integrity of their email communications. Furthermore, although encrypting email generally represents the best solution, not all of the encryption services currently available offer businesses the certainty, ease-of-use and affordability they require.

MessageLabs Boundary Encryption Service ensures the complete confidentiality of email communications and all the information they contain. It achieves this by setting up unbreachable private email networks linking our clients with their nominated partners. Every single email sent or received via these networks is fully and securely encrypted, but the application of encryption remains totally transparent to both sender and recipient.

Easy to enable and requiring minimal management, MessageLabs Boundary Encryption Service outperforms rival encryption offerings, not just by providing a higher level of protection but also by permitting the scanning of all encrypted email (incoming and outgoing) for viruses, spam and other inappropriate content for clients taking those specific services.

## Secure private networks – our encryption solution



The MessageLabs Boundary Encryption Service provides your organization with a comprehensive email confidentiality solution.

## How the service works

- MessageLabs clients designate the mail domains they want encrypted
- MessageLabs clients identify the partners they want to exchange encrypted communications with
- MessageLabs sets up a secure private email network that uses TLS encrypted tunnels
- All emails sent between the clients' mail server, MessageLabs and the clients' designated partners travel via this network
- MessageLabs authenticates mail server certificates, with messages only sent to authenticated servers
- MessageLabs ensures the integrity of the encrypted communications and applies any additional service settings that are needed
- If a secure TLS connection cannot be established end to end, the email is not delivered and the sender is notified – there is never any 'fall-back' to unencrypted delivery

## Mail server compatibility

- MessageLabs Boundary Encryption Service is interoperable with all market-leading mail servers, including Microsoft® Exchange, Lotus® Domino and Sendmail®
- Microsoft® is emphasizing TLS for confidentiality with Exchange 2007, reinforcing our TLS-based encryption solution
- The BITS consortium, representing 100 of the largest financial institutions in the US, advocates the use of TLS to enhance email security to protect customers and their accounts from identity theft and account fraud; and to ensure the reliability of email

To speak with a product specialist call toll free:

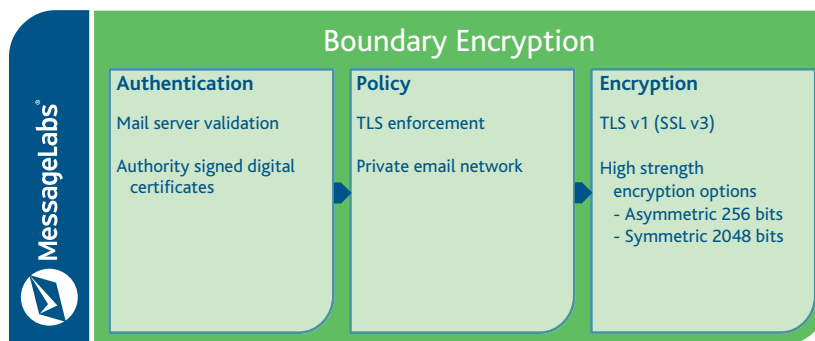
US: +1 866 460 0000  
 UK: +44 800 917 7733  
 APAC: +61 2 8208 7100

For specific country offices and contact numbers, visit the MessageLabs website

The service is based on the use of TLS to encrypt the whole email connection, or 'pipe', between your mail server and your partners' or clients' mail servers. It empowers you to define and manage a bespoke secure community for email exchange, based on a clearly defined, completely comprehensible and automatically enforced encryption policy.

Some confidentiality solutions only encrypt the message content, while others send messages unencrypted if a secure connection cannot be established. With MessageLabs Boundary Encryption Service, if a secure connection cannot be established, the email is not sent. Moreover, the whole of a message is encrypted (including subject line and the names of the sender, recipient and those copied in) as well as the body text and any attachments, preventing unauthorized in-transit modification. Our solution also eliminates the need to set up, configure or maintain in-house appliances, gateway systems or plug-in software. It requires absolutely no changes in user behavior and the maintenance of only one encrypted channel with MessageLabs.

The net result is a service that secures email passing between sender and recipient networks, facilitates compliance with privacy and other regulations (such as the Health Insurance Portability and Accountability Act and Gramm-Leach-Bliley Act in the US), and minimizes the overall cost that you incur.



## Features and Benefits of the Boundary Encryption Service

Feature	Benefit
Provides secure encryption of email communications with nominated organizations	Promotes trust and good relationships with your partners and clients
Fully encrypts every email sent and received within a private network	Ensures total data security plus full compliance with privacy regulations
Automatically encrypts emails according to your specified policy	Allows you to retain flexibility of operation
Encrypts email header, subject, body and attachment	Protects the confidentiality of every part of all email messages sent
Encrypts email only as it passes between mail servers, the most vulnerable stage of transmission	End-users are completely unaffected and no complicated message retrieval procedures are needed
Only one encrypted channel to maintain, with no additional hardware or software	Reduces capital outlay and internal administration and management costs
TLS authentication of mail servers, based on genuine authority-signed certificates	Ensures that encrypted email is only sent to the correct destinations
Works seamlessly alongside all other email security services provided by MessageLabs	Enables you to meet all of your email messaging security needs with one provider

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